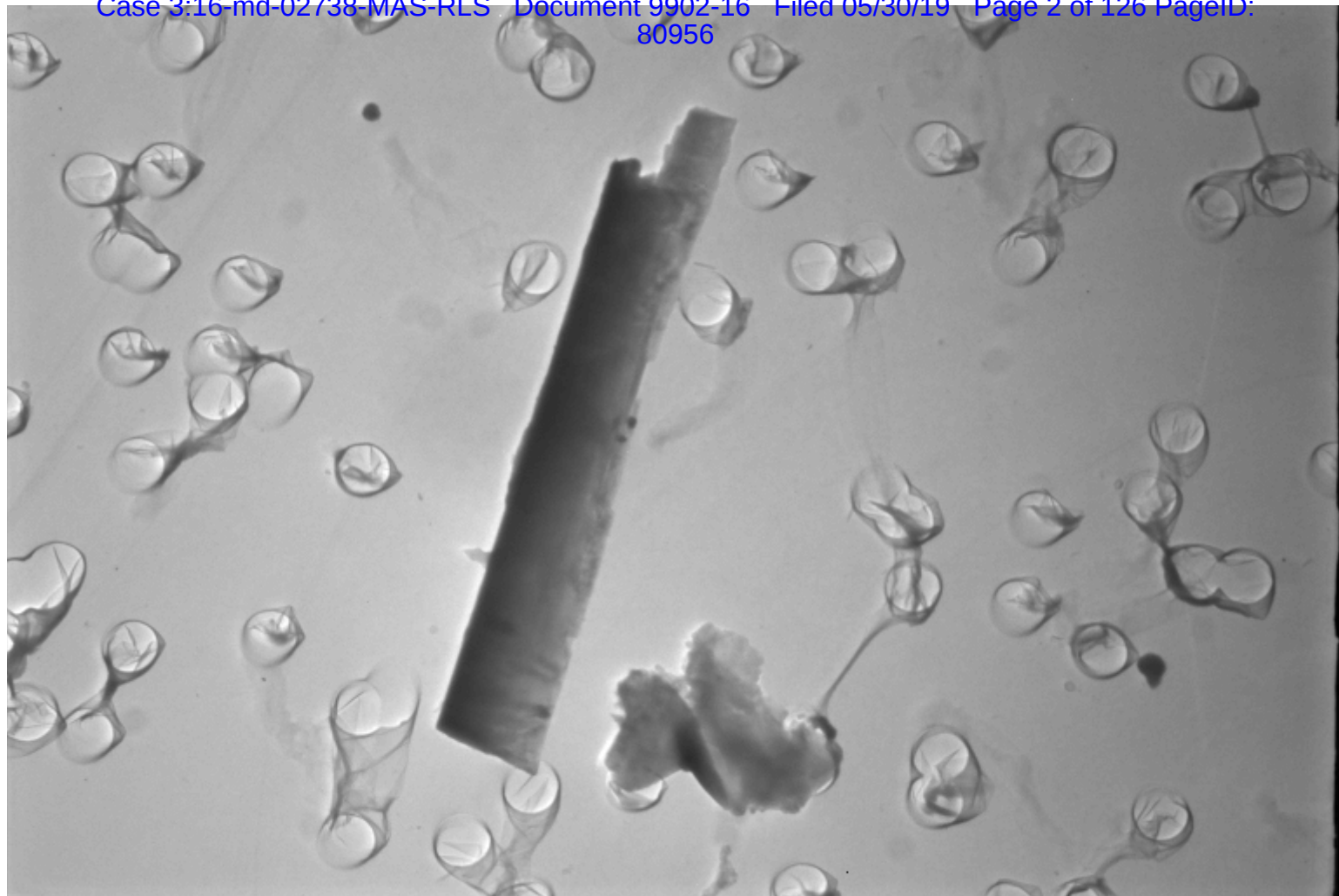


Exhibit 67-Q



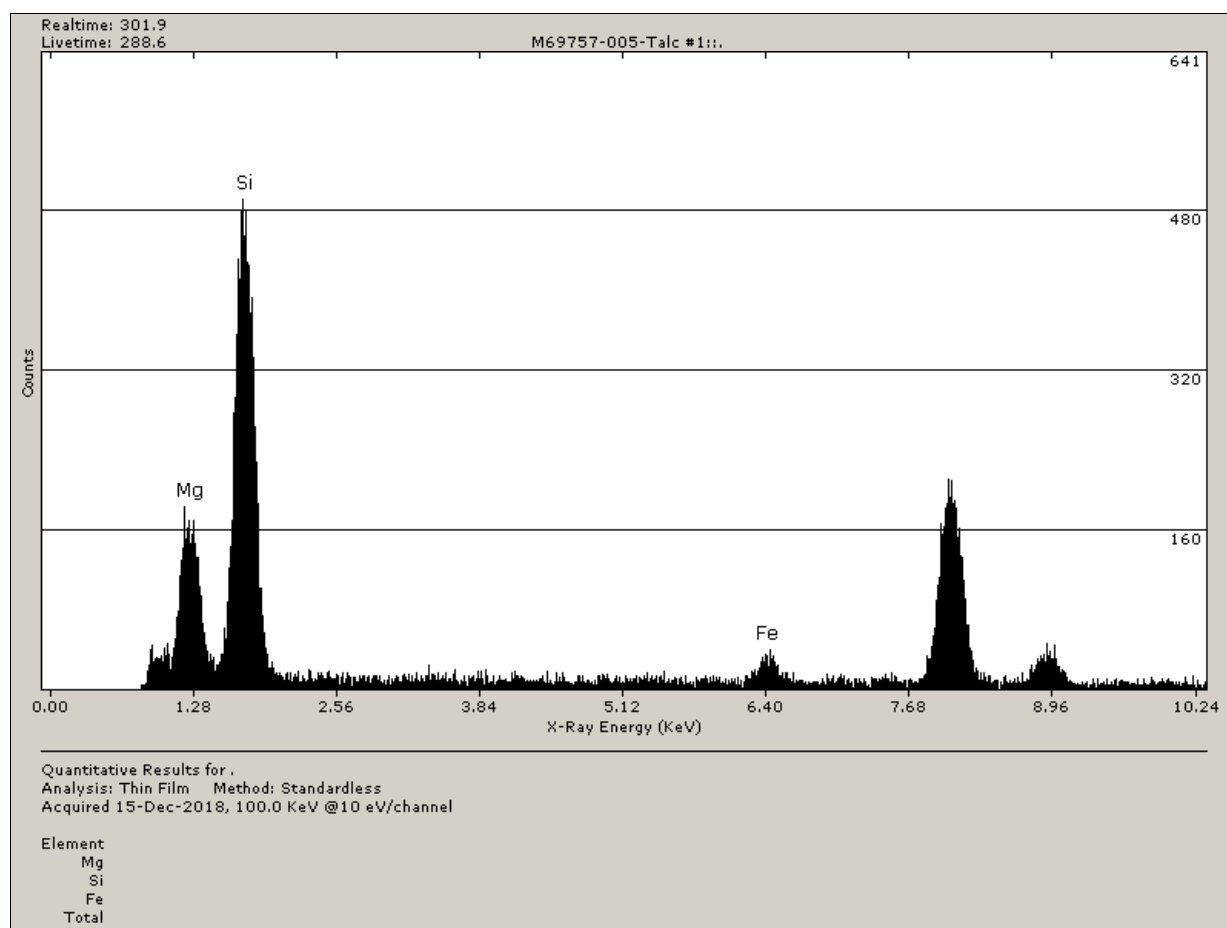
311036

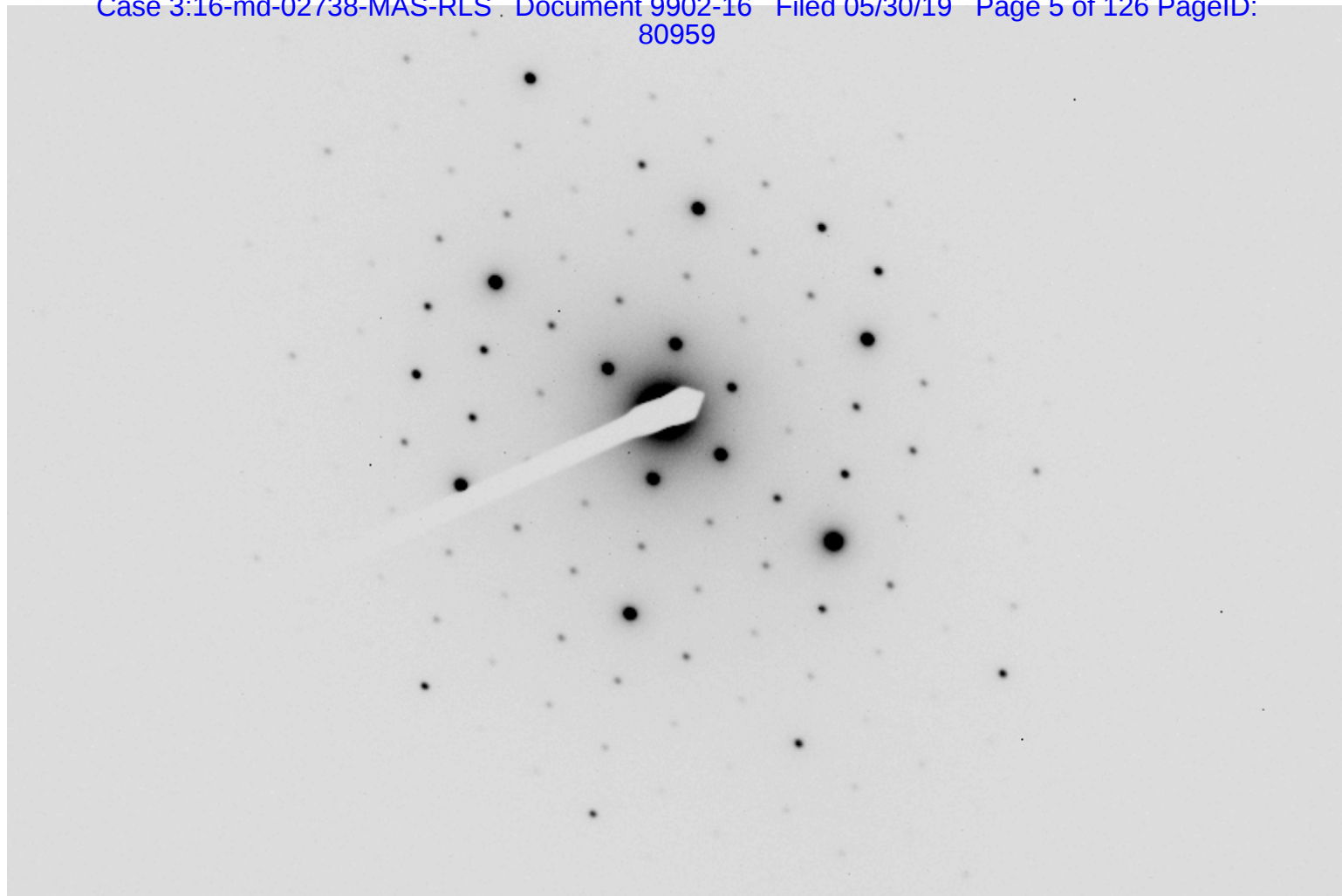
M69757-005-006 Anthophyllite (4.82 um x 0.76 um)

12/16/2018

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-005		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G.O. Area
Date of Analysis	12/15/2018 - 12/16/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.04041			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	15%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc #1	D8-A4	Fibrous Talc	9.6	0.74	13.0	Fibrous talc observed Trace through out	

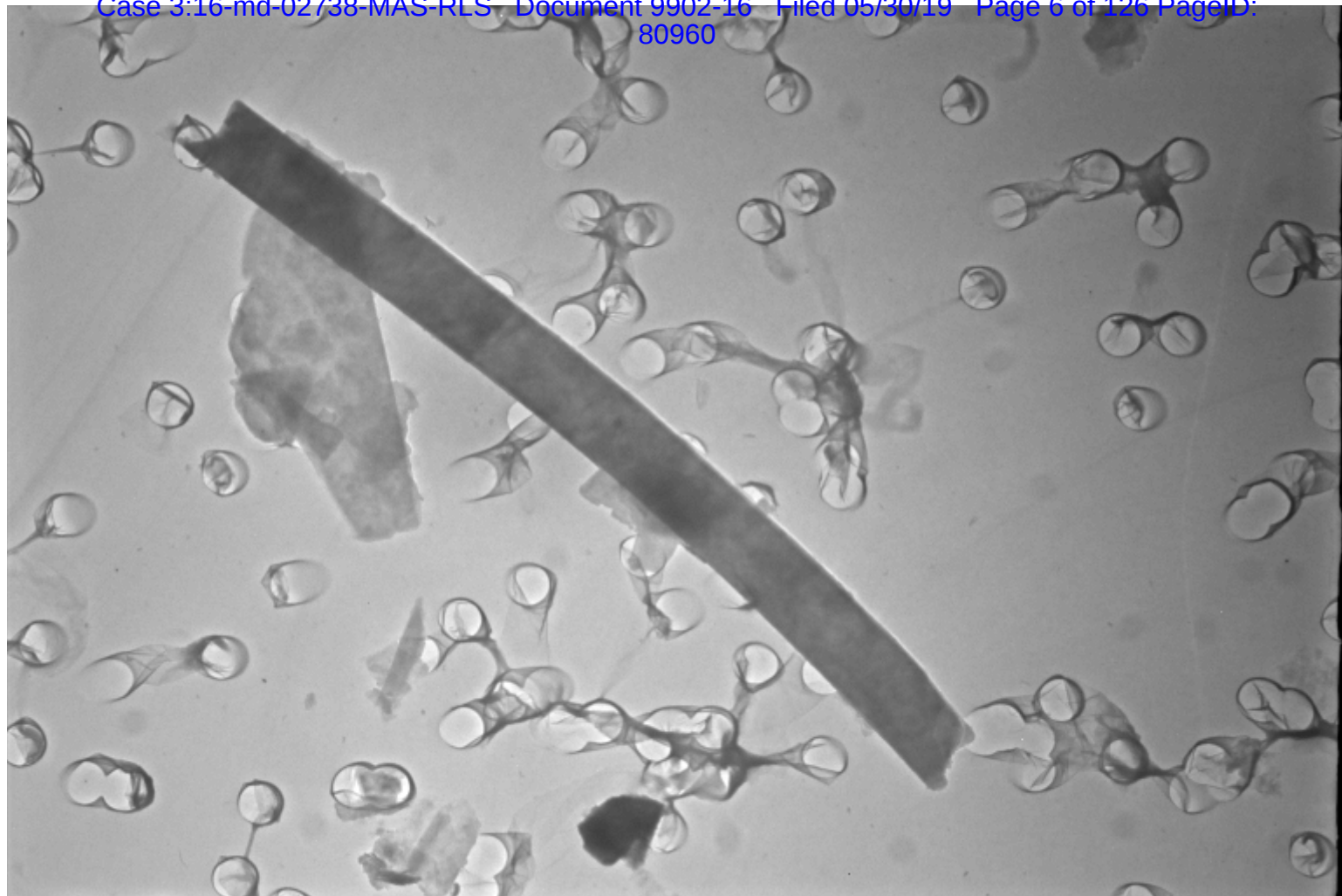




310977

M69757-005-Talc # 1 Diffraction @ 50cm

10/15/2018



310978

M69757-005-Talc # 1 (9.60 μm \times 0.74 μm)

12/15/2018

Section 4

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69757 - 007ISO **Analyst** Paul Hess **Date** 12/13/2018
ClientName Beasley, Allen, Crow, Methvin, Portis & Miles **ClientSpl** 20180358-01A
Location _____
Type_Mat Talc
Gross Off-white powder **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight		
Pleochroism	none		
Refract Index	1.629/1.615		
Sign^	positive		
Extinction	oblique		
Birefringence	moderate		
Melt	no		
Fiber Name	Actinolite/Tremolite		

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

< 0.1

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55

NON FIBROUS COMPONENTS

_____ **Opaques** _____
 _____ **Talc** _____
 _____ **Mineral grains** _____

Binder Description _____

Comments Actinolite/Tremolite asbestos observed. Moderate amount of fibrous Talc observed.
X=Materials Detected.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69757 - 007BL **Analyst** Paul Hess **Date** 12/14/2018
ClientName Beasley, Allen, Crow, Methvin, Portis & Miles **ClientSpl** 20180358-01A
Location _____
Type_Mat Talc
Gross White debris on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	straight	straight	
Pleochroism	none	none	
Refract Index	1.629/1.616	1.625/1.612	
Sign^	positive	positive	
Extinction	oblique	parallel	
Birefringence	medium	medium	
Melt	no	no	
Fiber Name	Actinolite/Tremolite	Anthophyllite	

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite..... < 0.1
Anthophyllite..... < 0.1

OTHER FIBROUS COMPONENTS

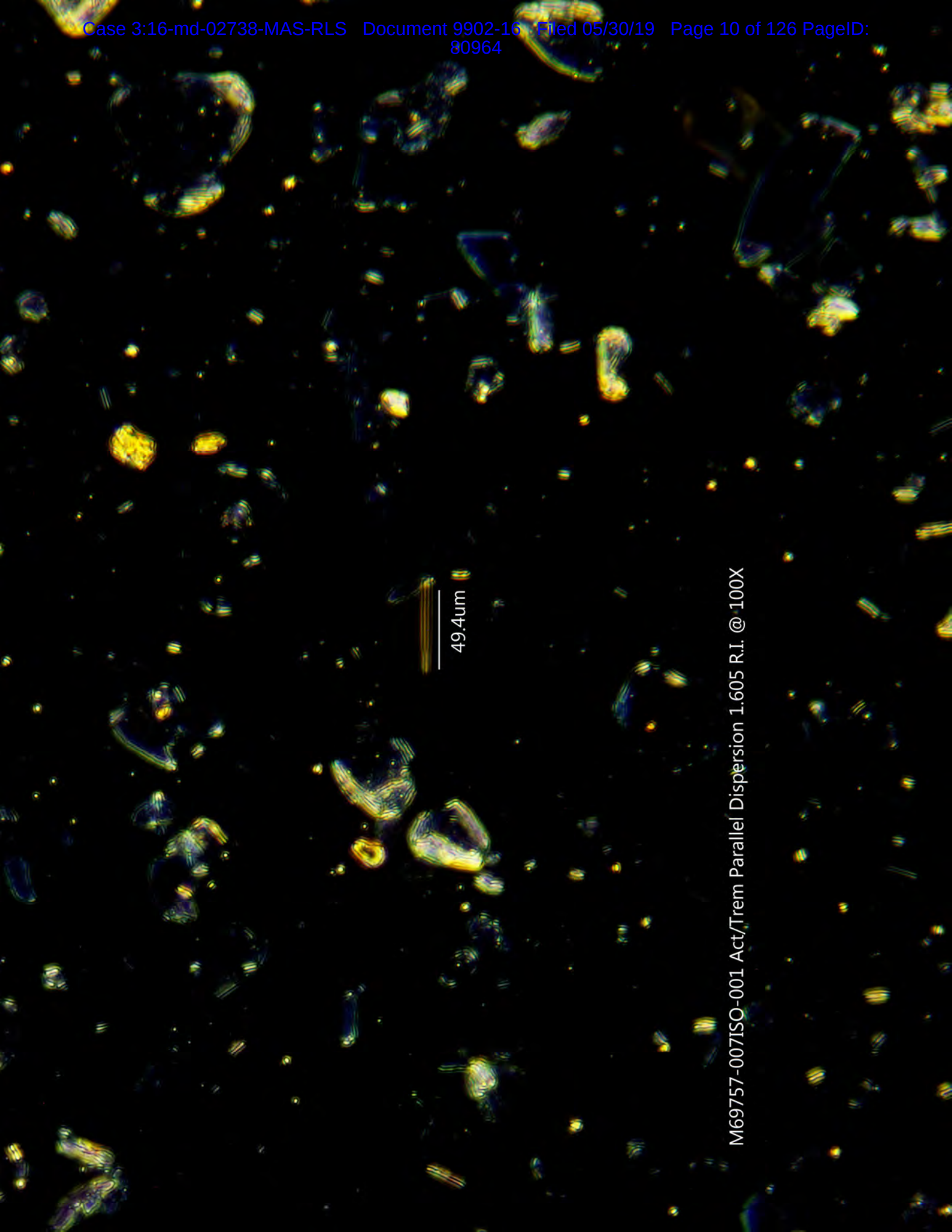
NON FIBROUS COMPONENTS

Opaques X
Talc X
Mineral grains X

Binder Description _____

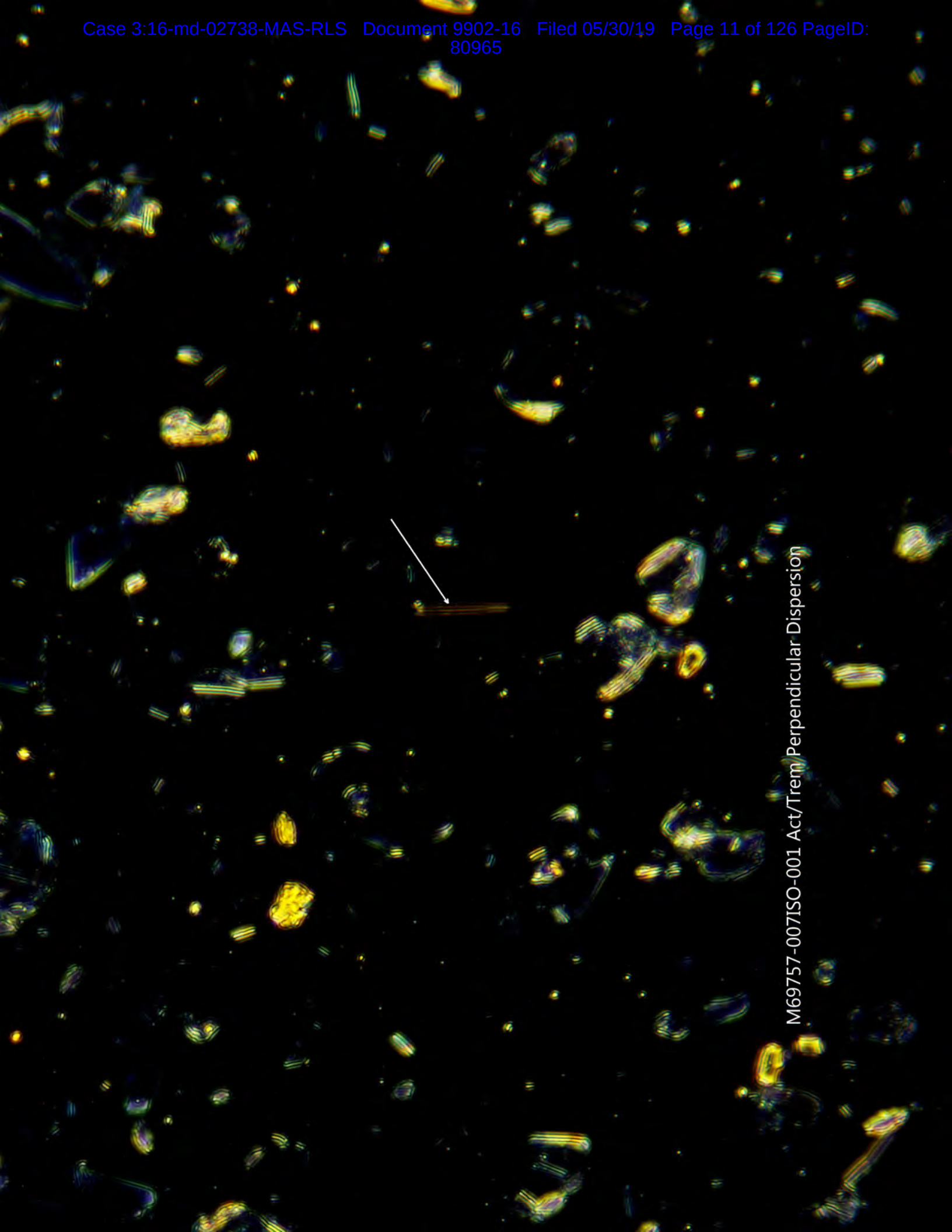
Comments Actinolite/Tremolite and Anthophyllite asbestos observed. *** Trace amount of fibrous Talc observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.



49.4um

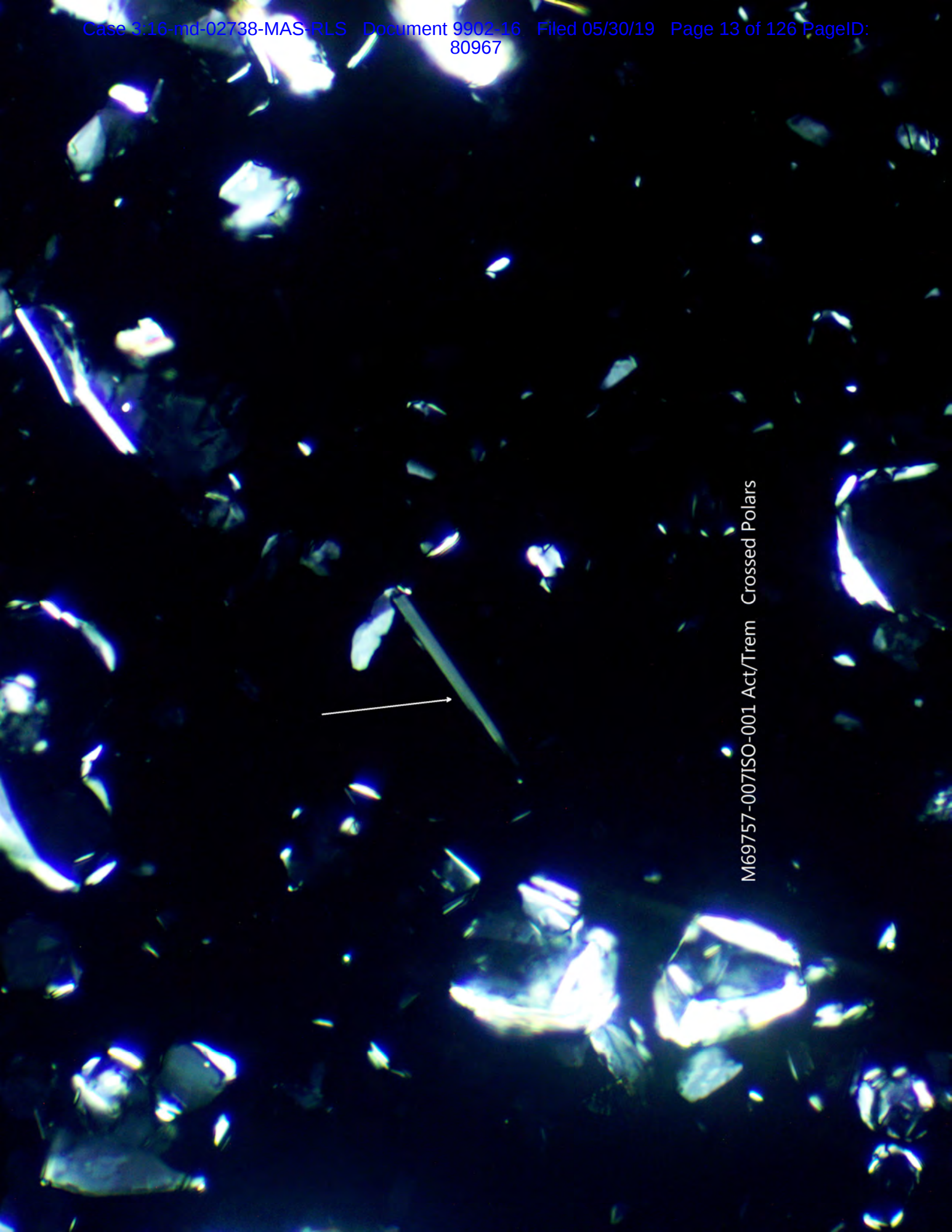
M69757-007ISO-001 Act/Trem Parallel Dispersion 1.605 R.I. @ 100X



M69757-007ISO-001 Act/Trem/Perpendicular Dispersion



M69757-007ISO-001 Act/Trem Elongation @ 200X



M69757-007ISO-001 Act/Trem Crossed Polars



M69757-007BL-001 Act/Trem Parallel Dispersion 1.605 R.I. @ 100X

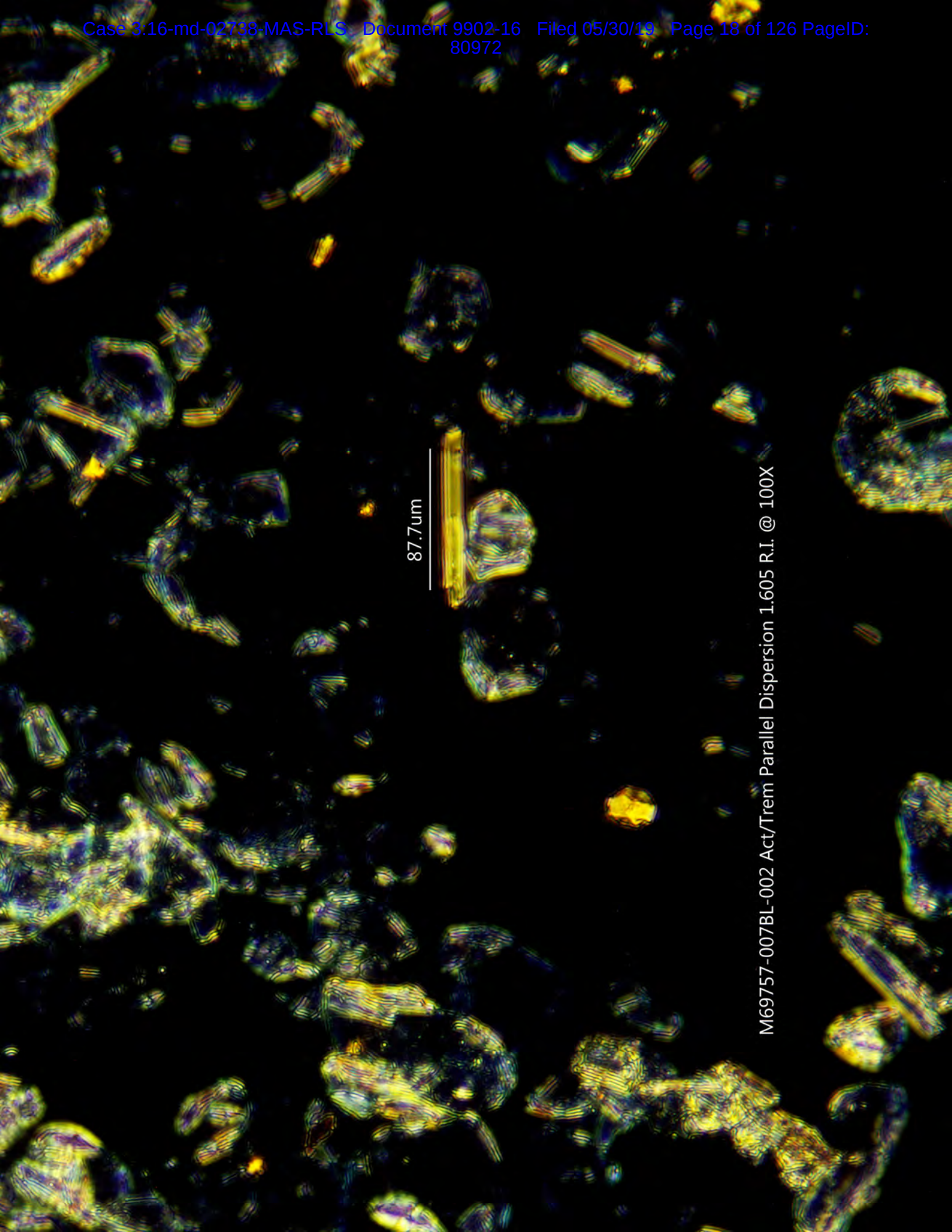
M69757-007BL-001 Act/Trem Perpendicular Dispersion



M69757-007BL-001 Act/Trem Elongation @ 200X



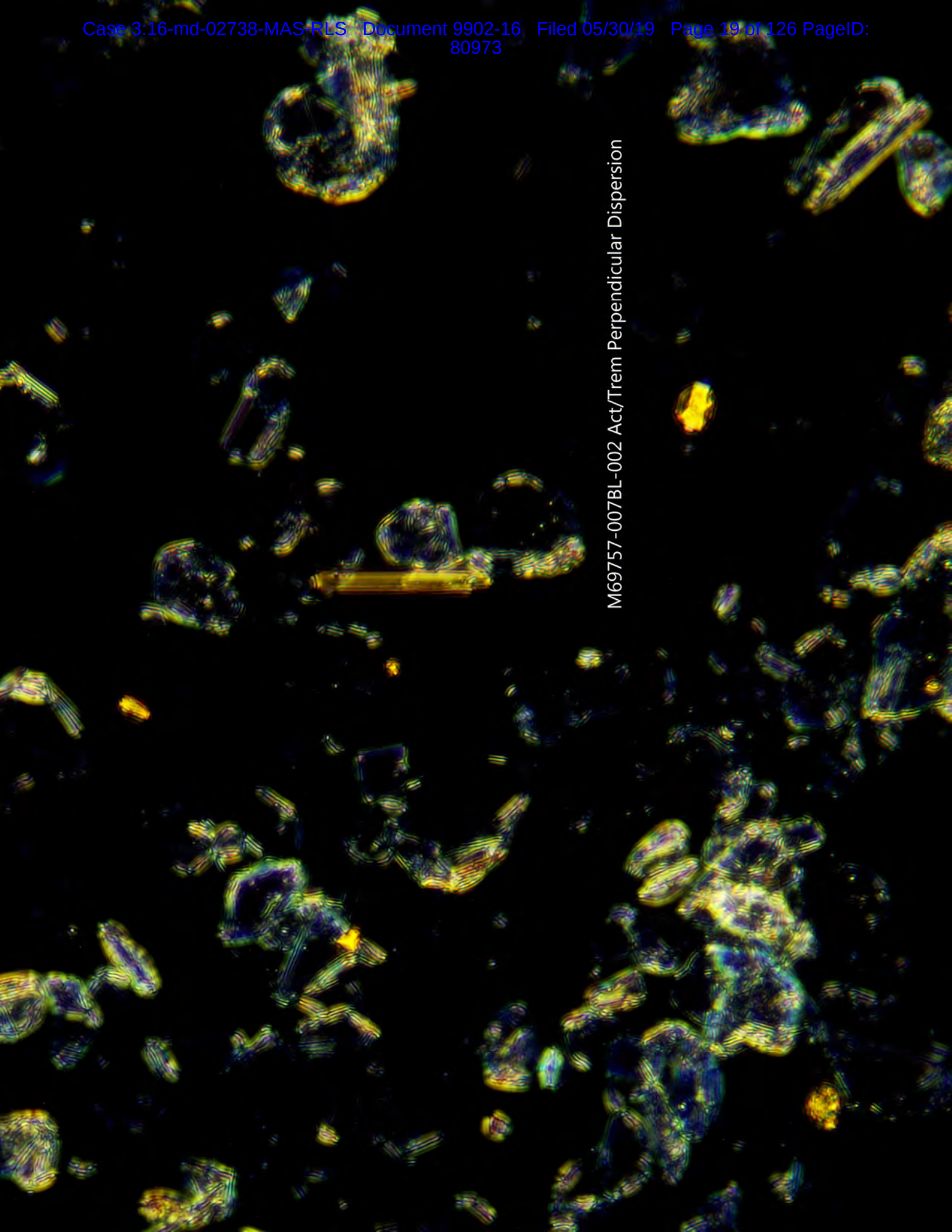
M69757-007BL-001 Act/Trem Crossed Polars

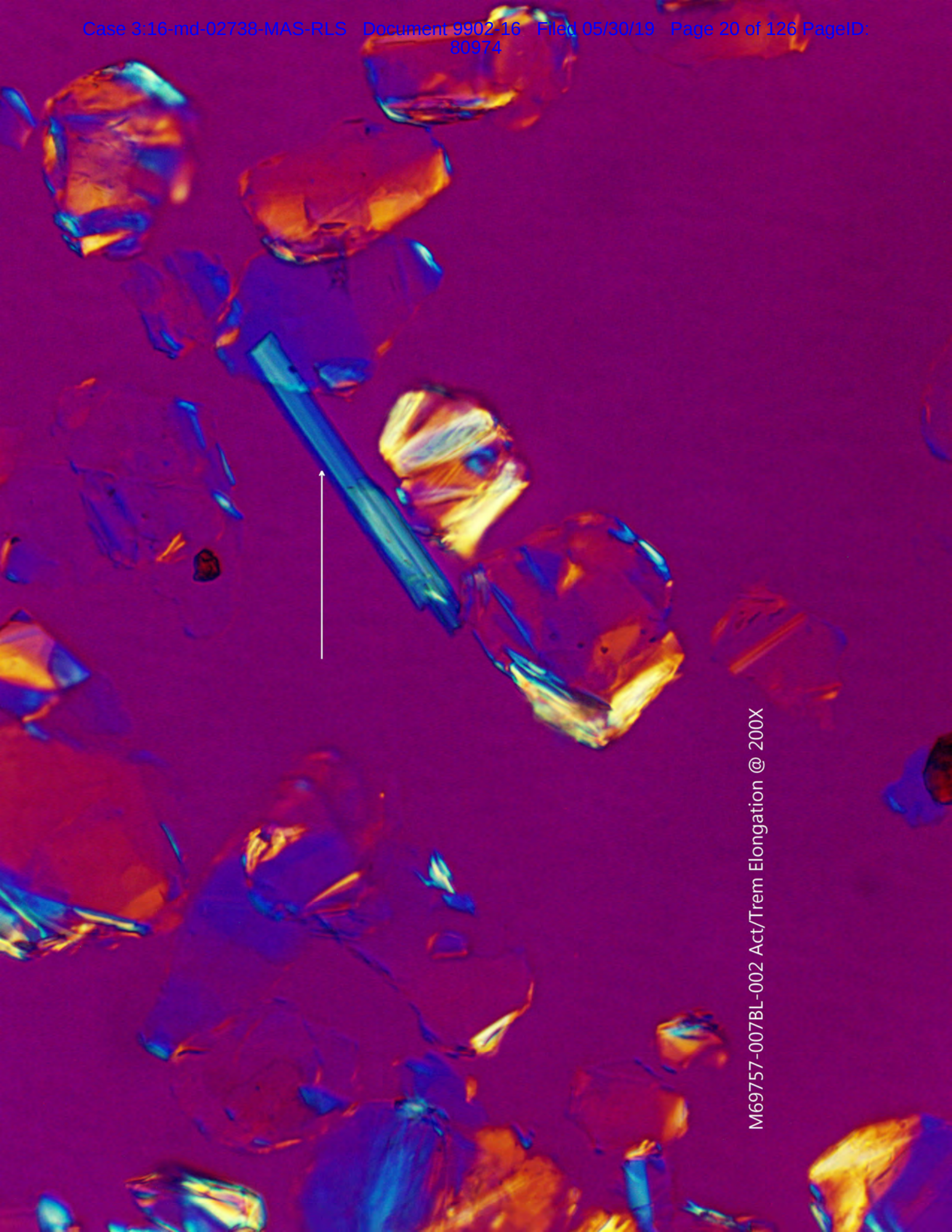


87.7µm

M69757-007BL-002 Act/Trem Parallel Dispersion 1.605 R.I. @ 100X

M69757-007BL-002 Act/Trem Perpendicular Dispersion





M69757-007BL-002 Act/Trem Elongation @ 200X



M69757-007BL-002 Act/Trem Crossed Polars

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-007		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G. O. Area
Date of Analysis	12/15/2018-12/17/18		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04202			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
1	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	E6-J1							
NSD	J2							
NSD	J3							
NSD	J4							
NSD	J5							
NSD	J6							
NSD	J7							
1	J8	Bundle	Anthophyllite	5.6	1.1	5.1	X	X
NSD	J9							
NSD	J10							
NSD	I1							
NSD	I2							
NSD	I3							
NSD	I4							
NSD	I5							
NSD	I6							
NSD	I7							
2	I8	Bundle	Anthophyllite	4.6	0.64	7.2	X	X
NSD	I9							
NSD	I10							
NSD	H1							
NSD	H2							
NSD	H3							
NSD	H4							
NSD	H5							
NSD	H6							
NSD	H7							
NSD	H8							
NSD	H9							
NSD	H10							
NSD	E1							
NSD	E2							
NSD	E3							
3	E4	Fiber	Anthophyllite	9.9	0.36	27.5	X	X
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
4	E10	Bundle	Anthophyllite	10.9	0.35	31.1	X	X
5		Bundle	Anthophyllite	11.7	1.4	8.4	X	X
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-007		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G. O. Area
Date of Analysis	12/15/2018-12/17/18		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04202			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
1	Screen Magnification	20 KX	Area Examined mm ²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	D10							
NSD	E7-J1							
NSD	J2							
NSD	J3							
NSD	J4							
NSD	J5							
NSD	J6							
NSD	J7							
NSD	J8							
NSD	J9							
NSD	J10							
NSD	I1							
NSD	I2							
NSD	I3							
NSD	I4							
NSD	I5							
NSD	I6							
NSD	I7							
NSD	I8							
NSD	I9							
NSD	I10							
NSD	H1							
NSD	H2							
NSD	H3							
NSD	H4							
NSD	H5							
NSD	H6							
NSD	H7							
NSD	H8							
NSD	H9							
6	H10	Bundle	Tremolite	11.6	1.1	10.5	X	X
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							
NSD	F9							
NSD	F10							
7	E1	Bundle	Anthophyllite	11.8	1.6	7.4	X	X
8		Bundle	Anthophyllite	8	1.3	6.2	X	X
NSD	E2							
NSD	E3							
NSD	E4							
9	E5	Bundle	Anthophyllite	49.4	2.1	23.5	X	X
NSD	E6							
NSD	E7							
NSD	E8							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-007		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G. O. Area
Date of Analysis	12/15/2018-12/17/18		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04202			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
1	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	E9							
NSD	E10							

	Sample Wt.
Org. Sample Wt.	Post HL Separation
0.04202	0.04202 g
Percent of Orig. Post Separation	100 (%)
Wt. Of Sample Analyzed	0.00023037 g
Filter size	201.1 mm²
Number of Structures Counted	9 Str.
Structures per Gram of Sample	3.91E+04 Str./g

Detection Limit	4.34E+03	Str./g
Analytical Sensitivity	4.34E+03	Str./g

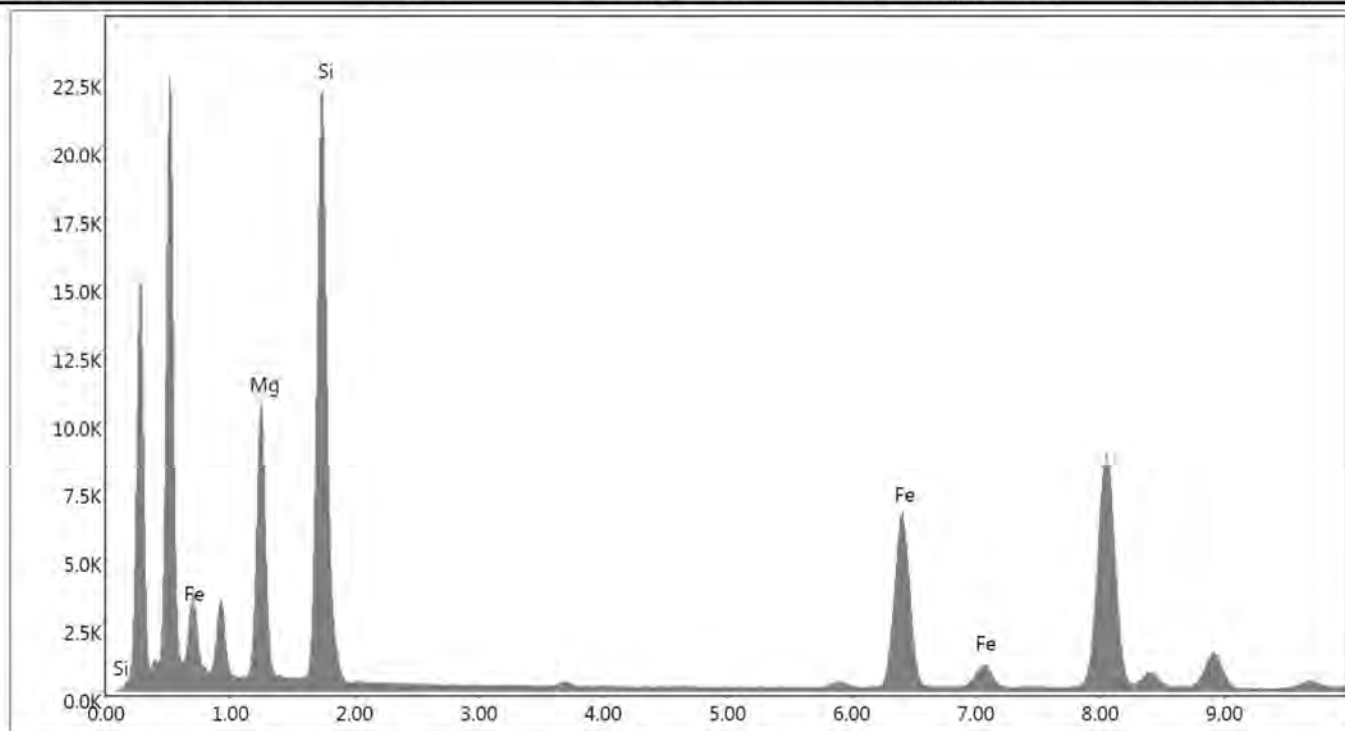
EDAX TEAM

Analysis

Author: lab
Creation: 12/15/2018 7:13:00 PM
Sample Name: Talc

M69757-007-001 Anthophyllite

kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μs): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 203 Cnts 4.350 keV Det: Apollo XLT2 SUTW

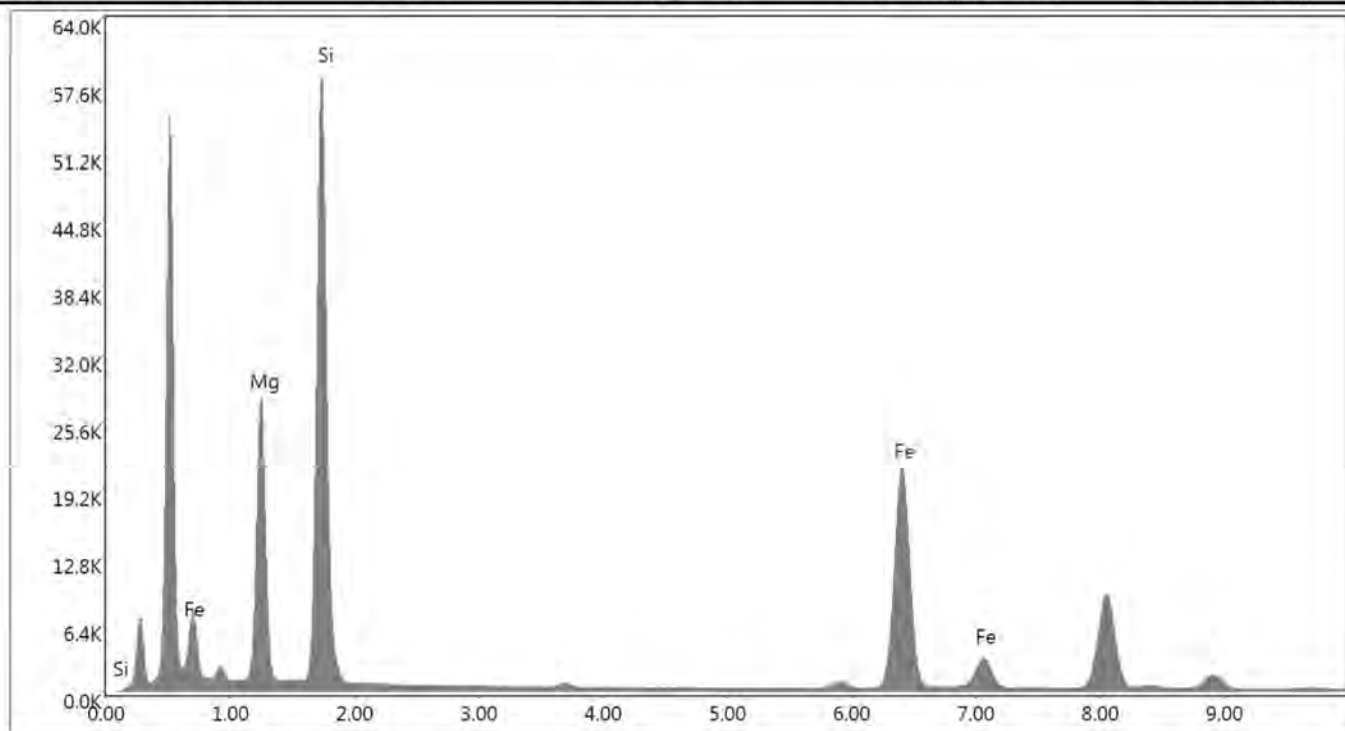
EDAX TEAM

Analysis

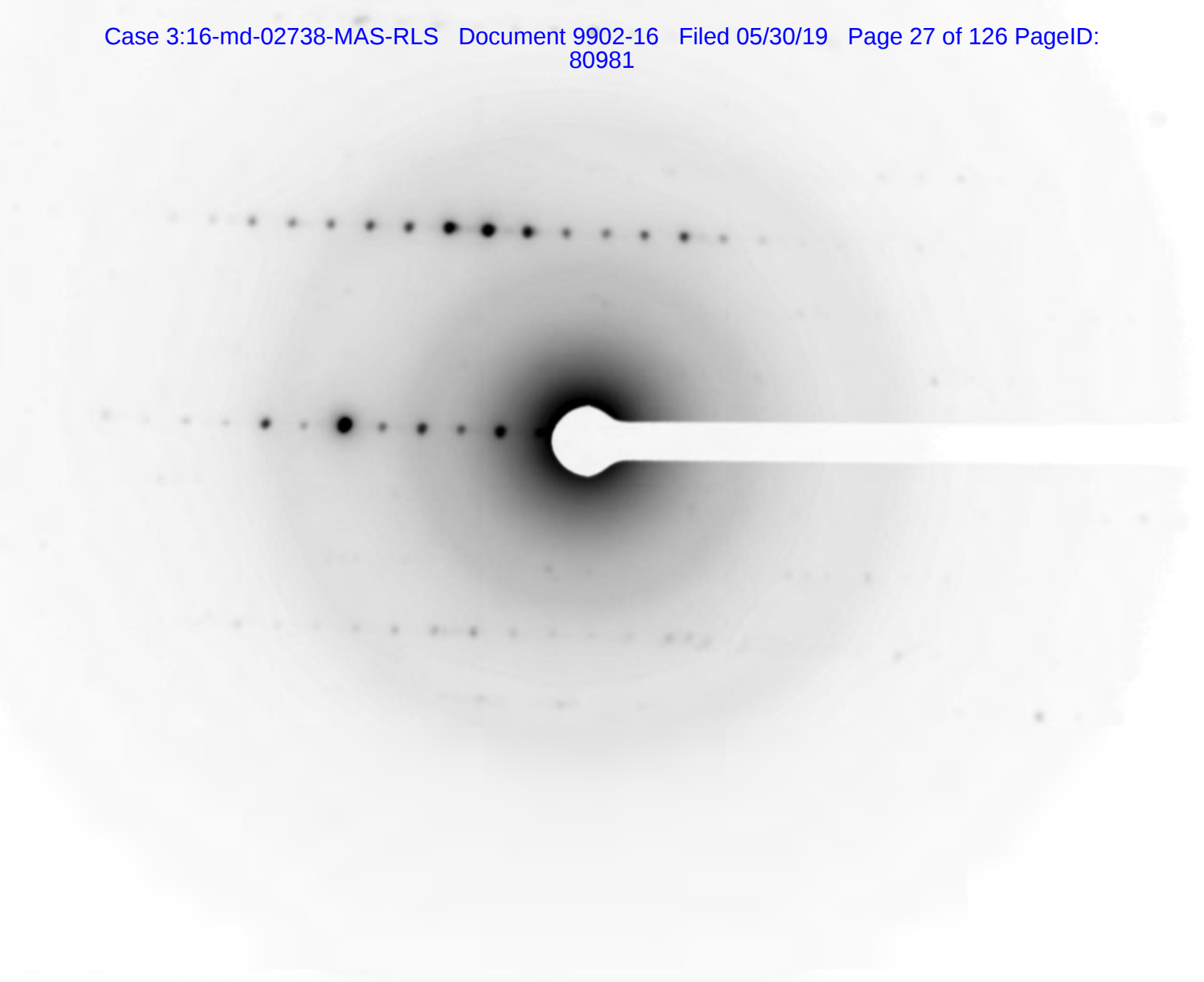
Author: lab
Creation: 12/16/2018 9:42:24 AM
Sample Name: Talc

M69757-007-001 Anthophyllite 2

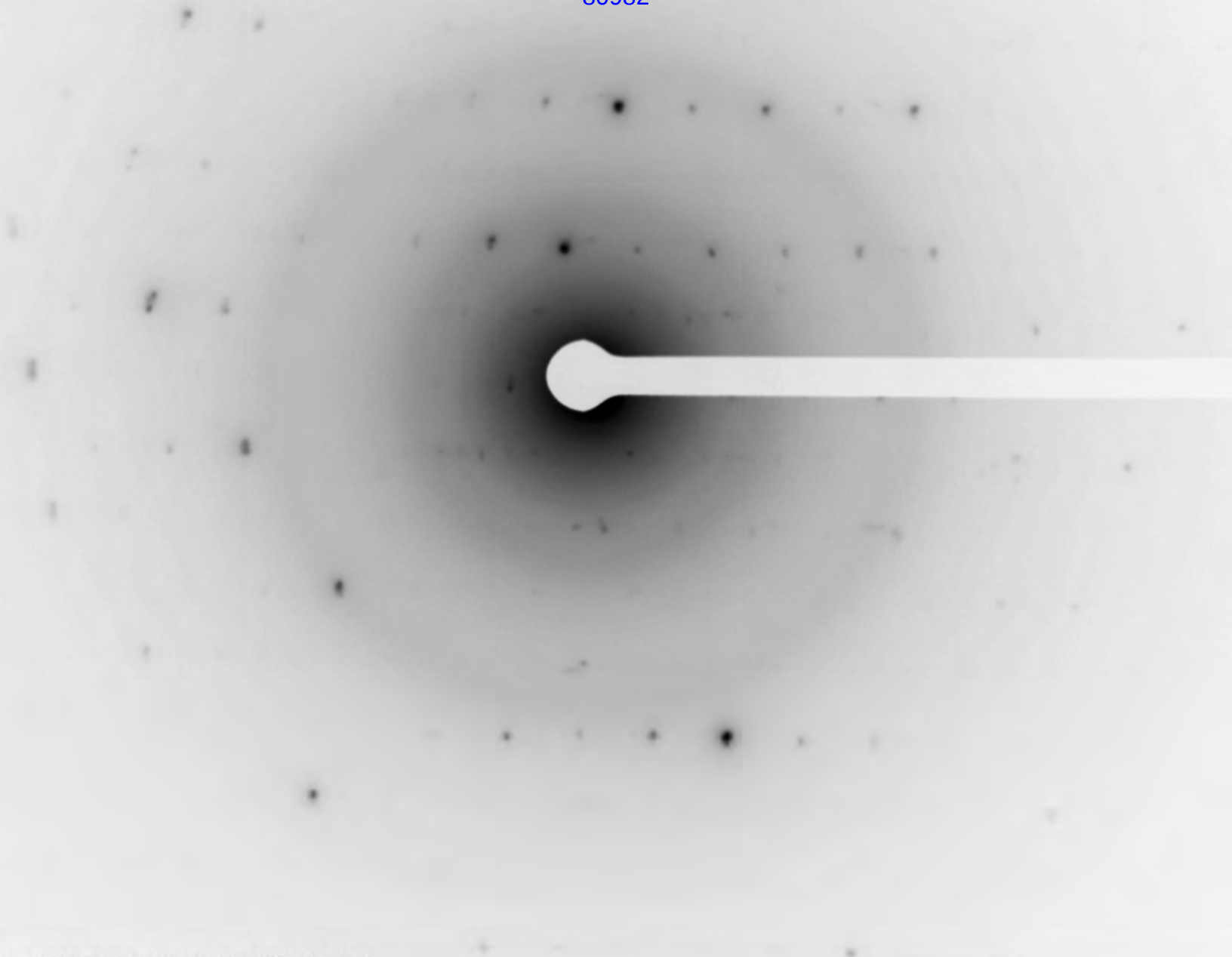
kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μs): 3.84 Resolution:(eV) 131.8



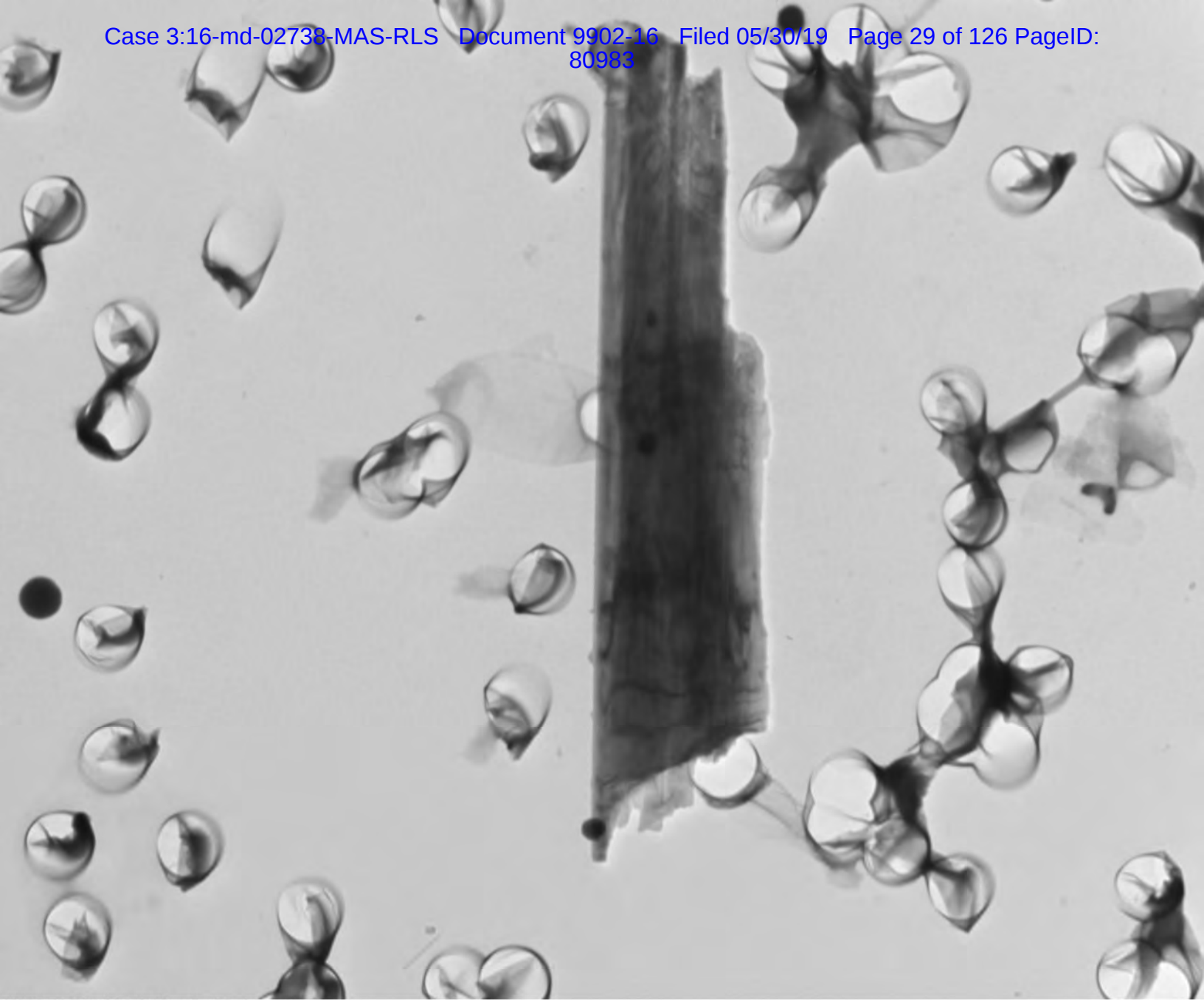
Lsec: 300.0 366 Cnts 4.350 keV Det: Apollo XLT2 SUTW



M69757-007-001 Anthophyllite Diffraction.tif
Diffraction @ 50cm
19:04 12/15/2018



M69757-007-001 Anthophyllite Diffraction 2.tif
Diffraction @ 50cm
19:15 12/15/2018



M69757-007-001 Anthophyllite Image.tif
(5.6um x 1.1um)
19:18 12/15/2018

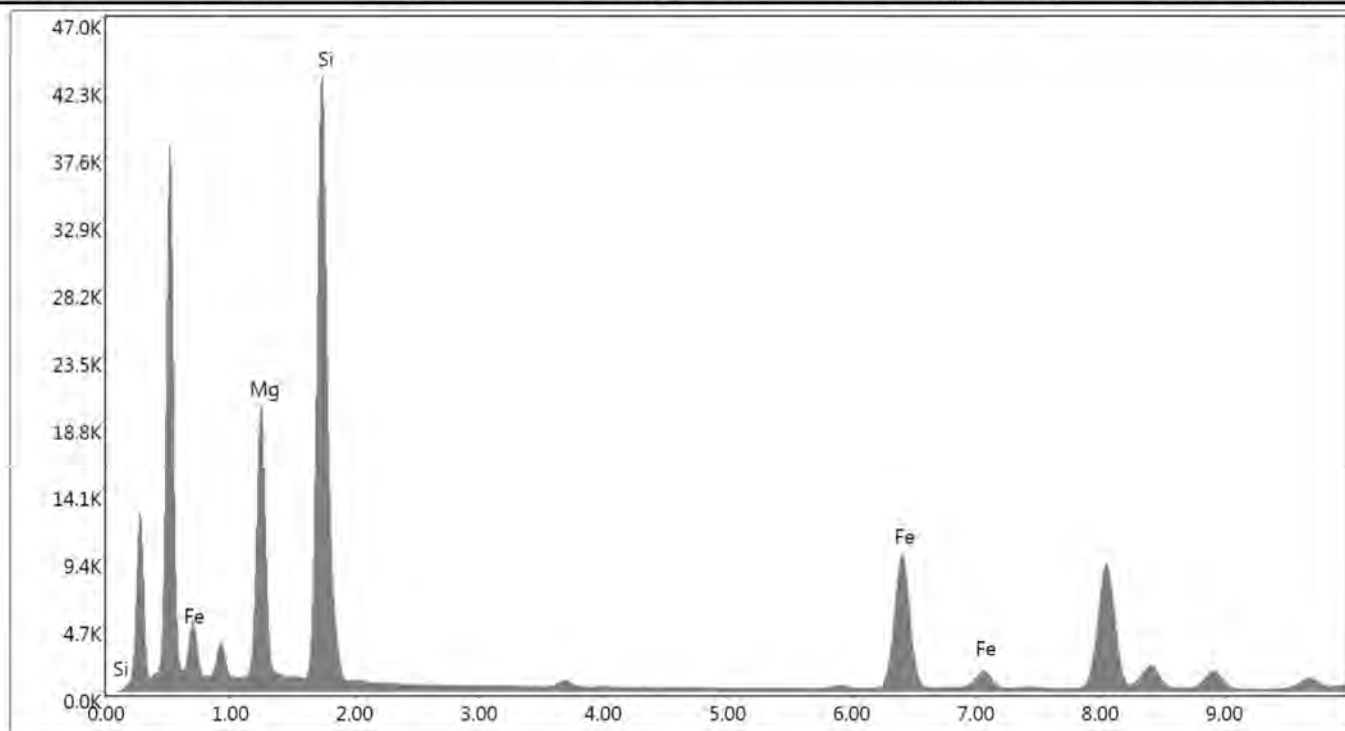
EDAX TEAM

Analysis

Author: lab
Creation: 12/16/2018 10:21:09 AM
Sample Name: Talc

M69757-007-002 Anthophyllite

kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μ s): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 272 Cnts 4.350 keV Det: Apollo XLT2 SUTW

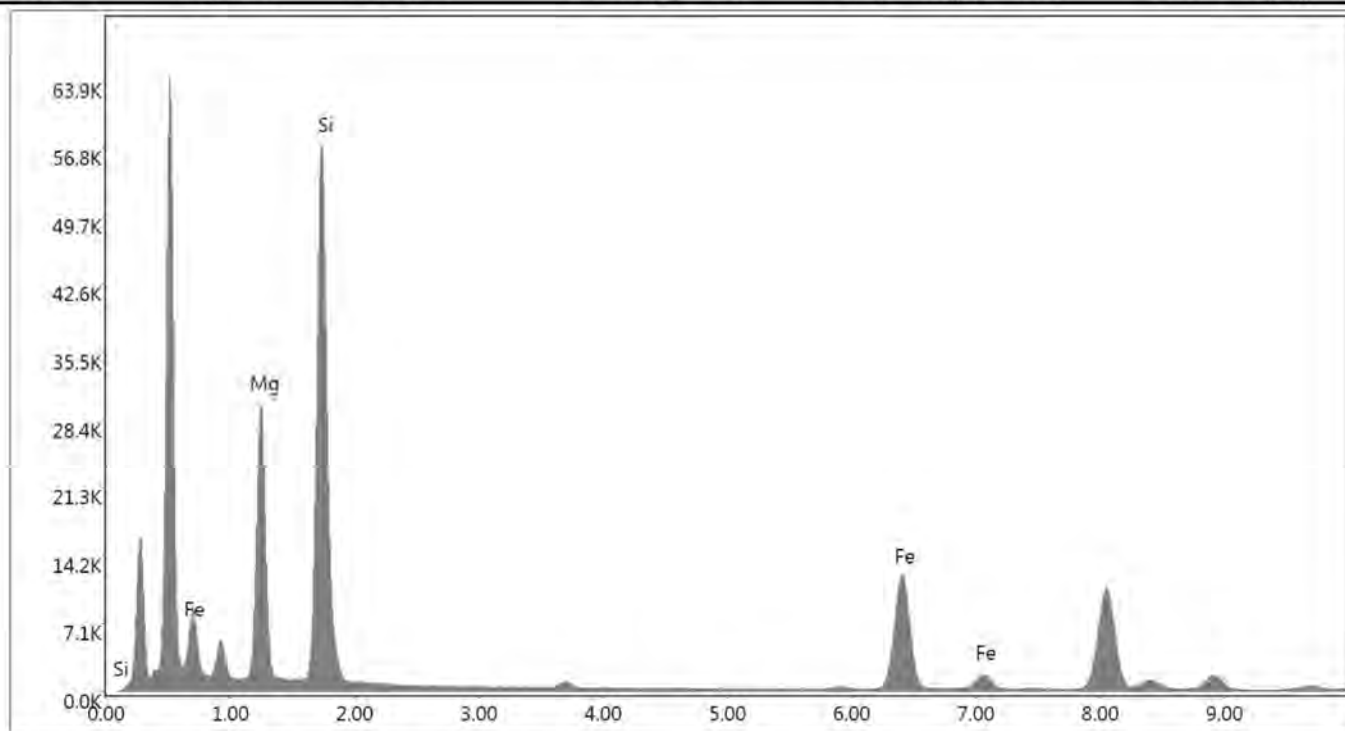
EDAX TEAM

Analysis

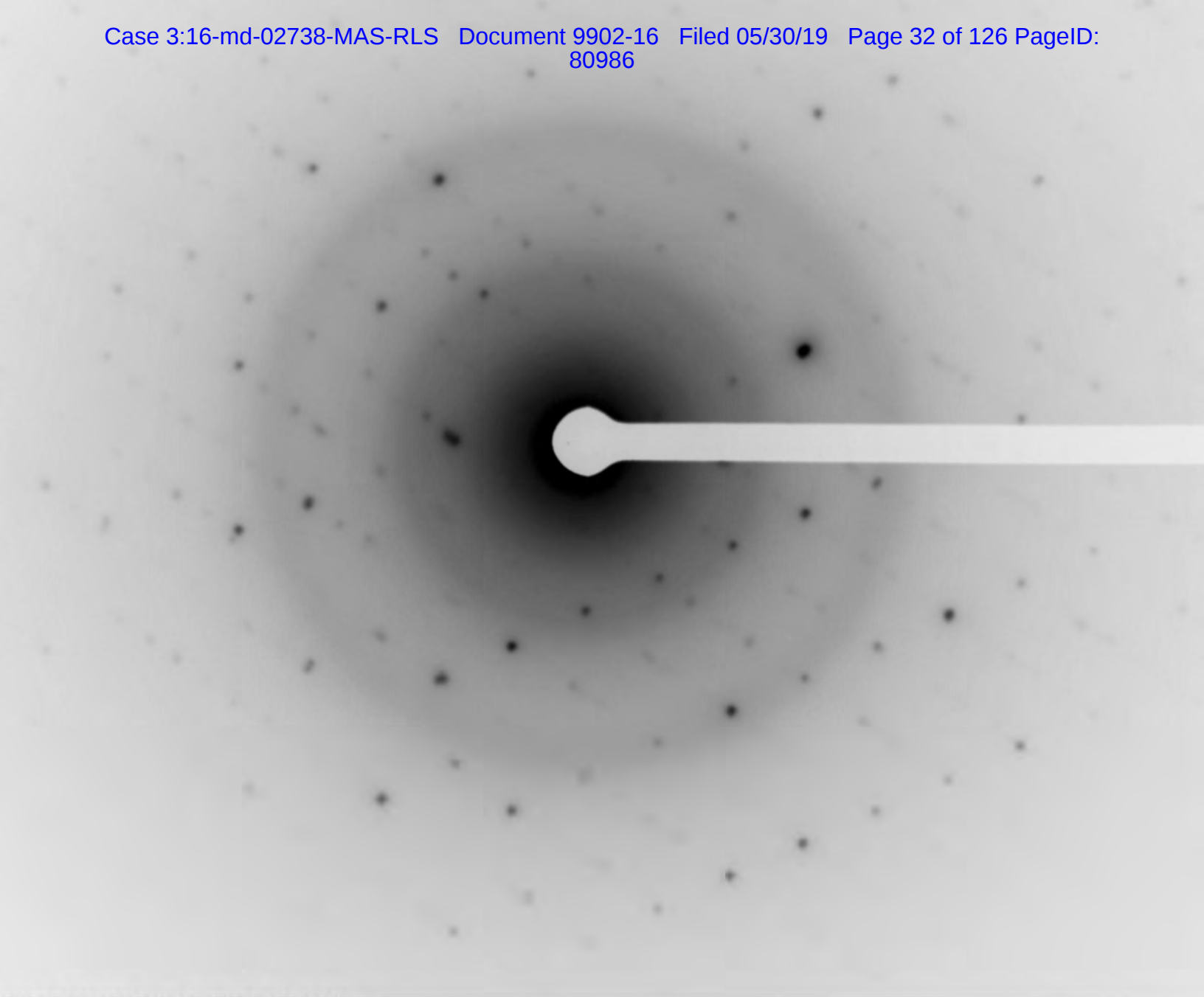
Author: lab
Creation: 12/16/2018 10:33:56 AM
Sample Name: Talc

M69757-007-002 Anthophyllite 2

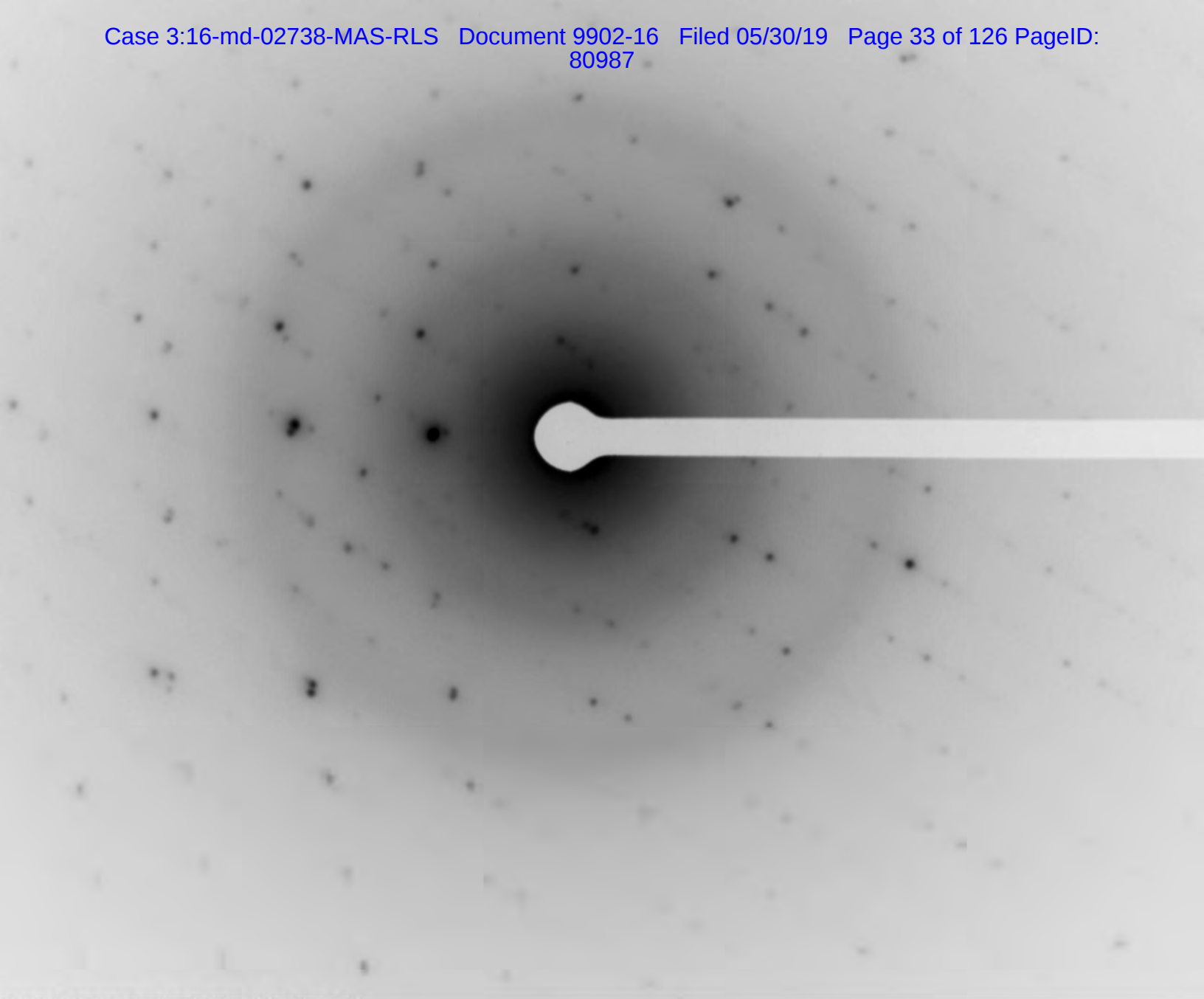
kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μ s): 3.84 Resolution:(eV) 131.8



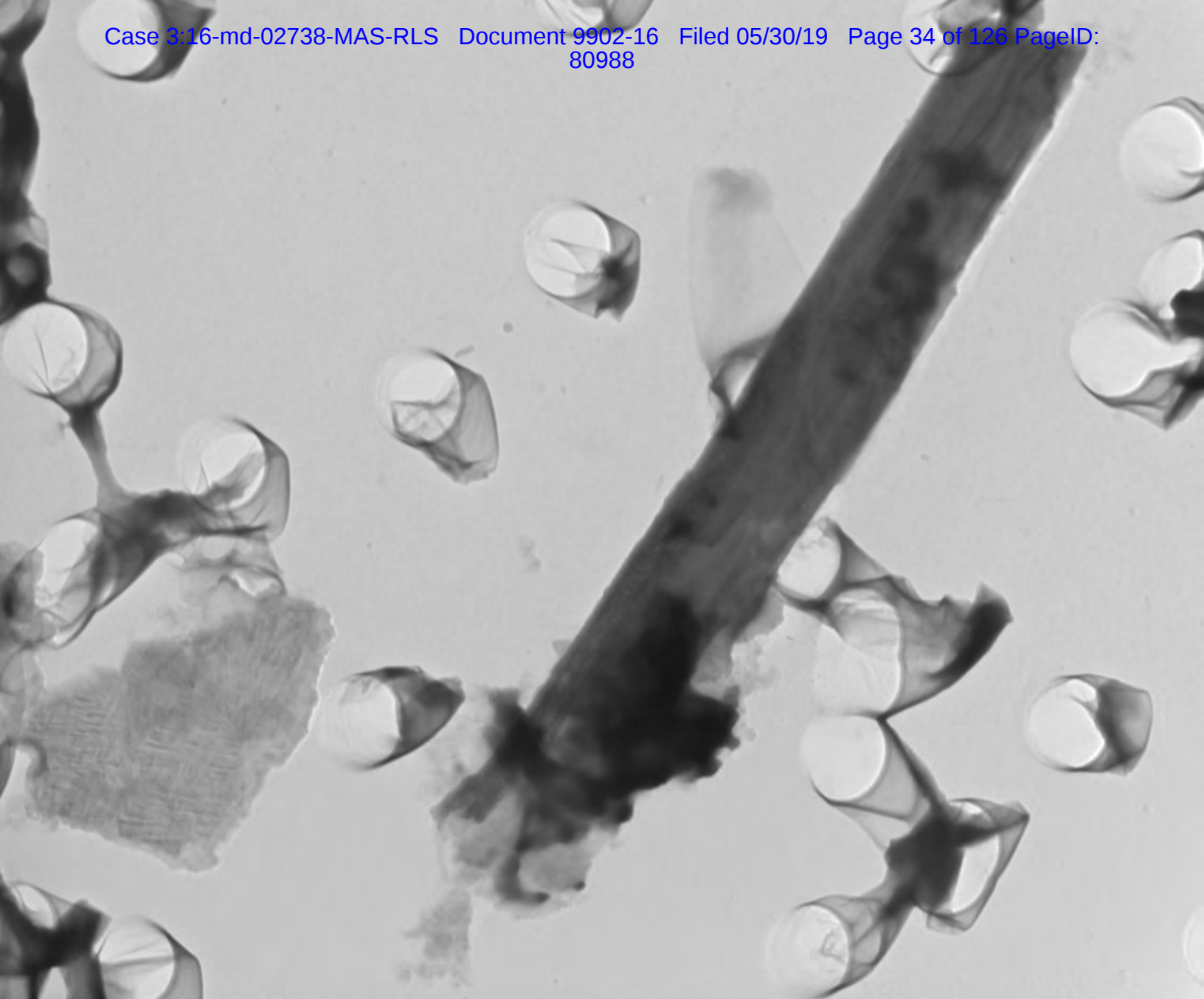
Lsec: 300.0 319 Cnts 4.350 keV Det: Apollo XLT2 SUTW



M69757-007-002 Anthophyllite Diffraction.tif
Diffraction @ 50cm
10:12 12/16/2018



M69757-007-002 Anthophyllite Diffraction 2.tif
Diffraction @ 50cm
10:22 12/16/2018



M69757-007-002 Anthophyllite Image.tif
(4.6um x 0.64um)
10:34 12/16/2018

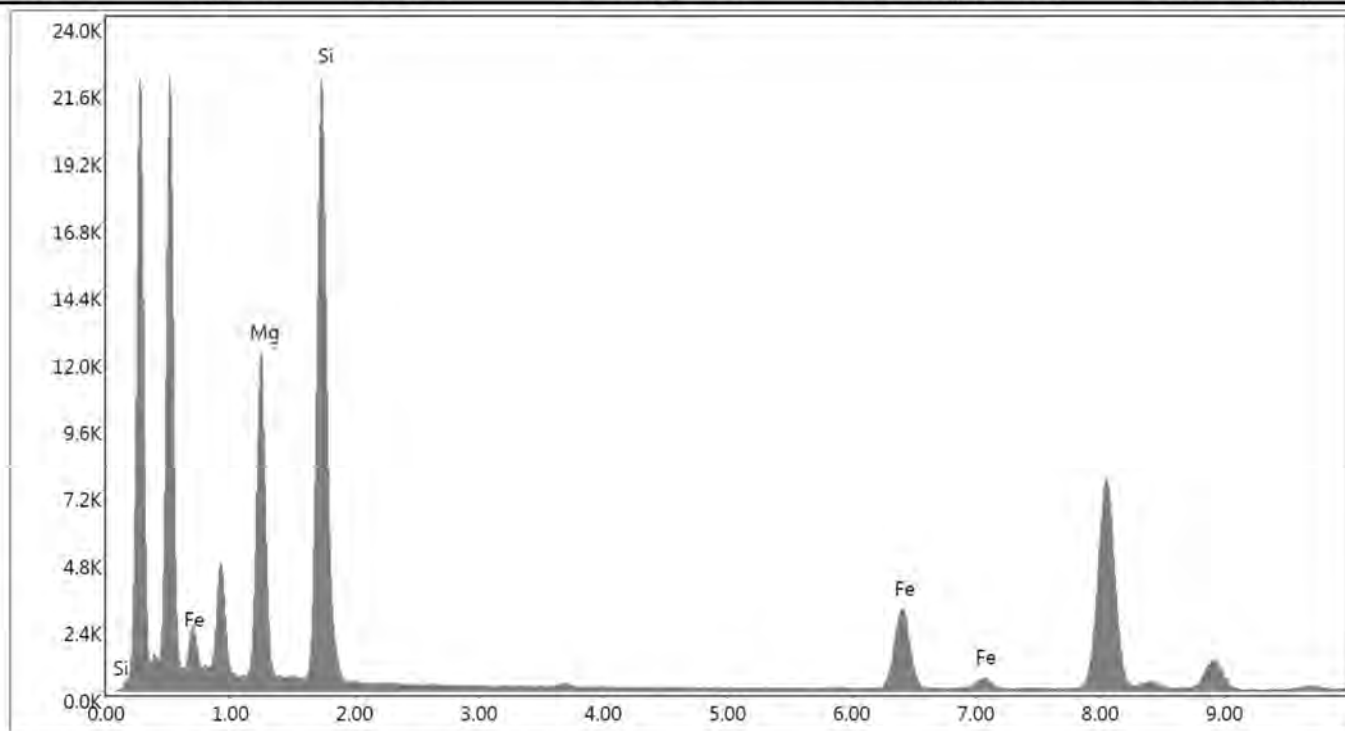
EDAX TEAM

Analysis

Author: lab
Creation: 12/16/2018 11:41:37 AM
Sample Name: Talc

M69757-007-003 Anthophyllite

kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μs): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 124 Cnts 4.350 keV Det: Apollo XLT2 SUTW

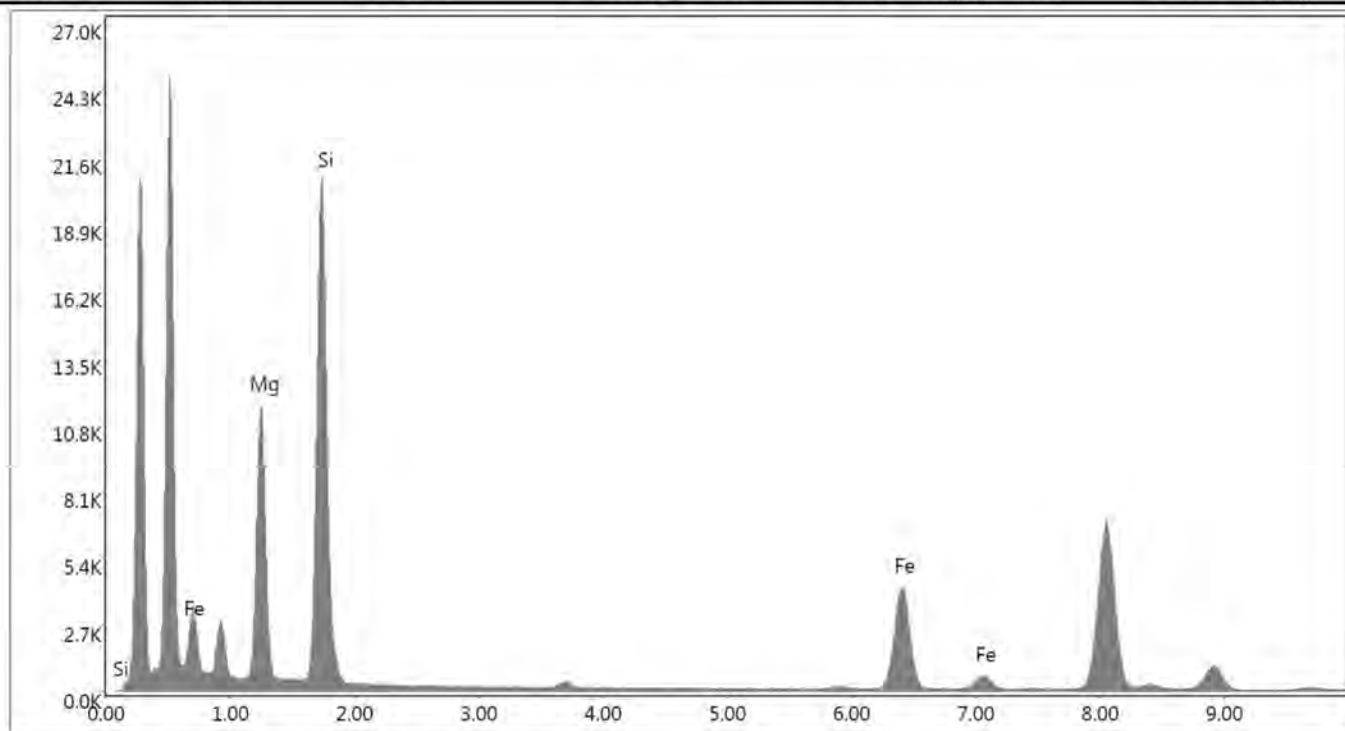
EDAX TEAM

Analysis

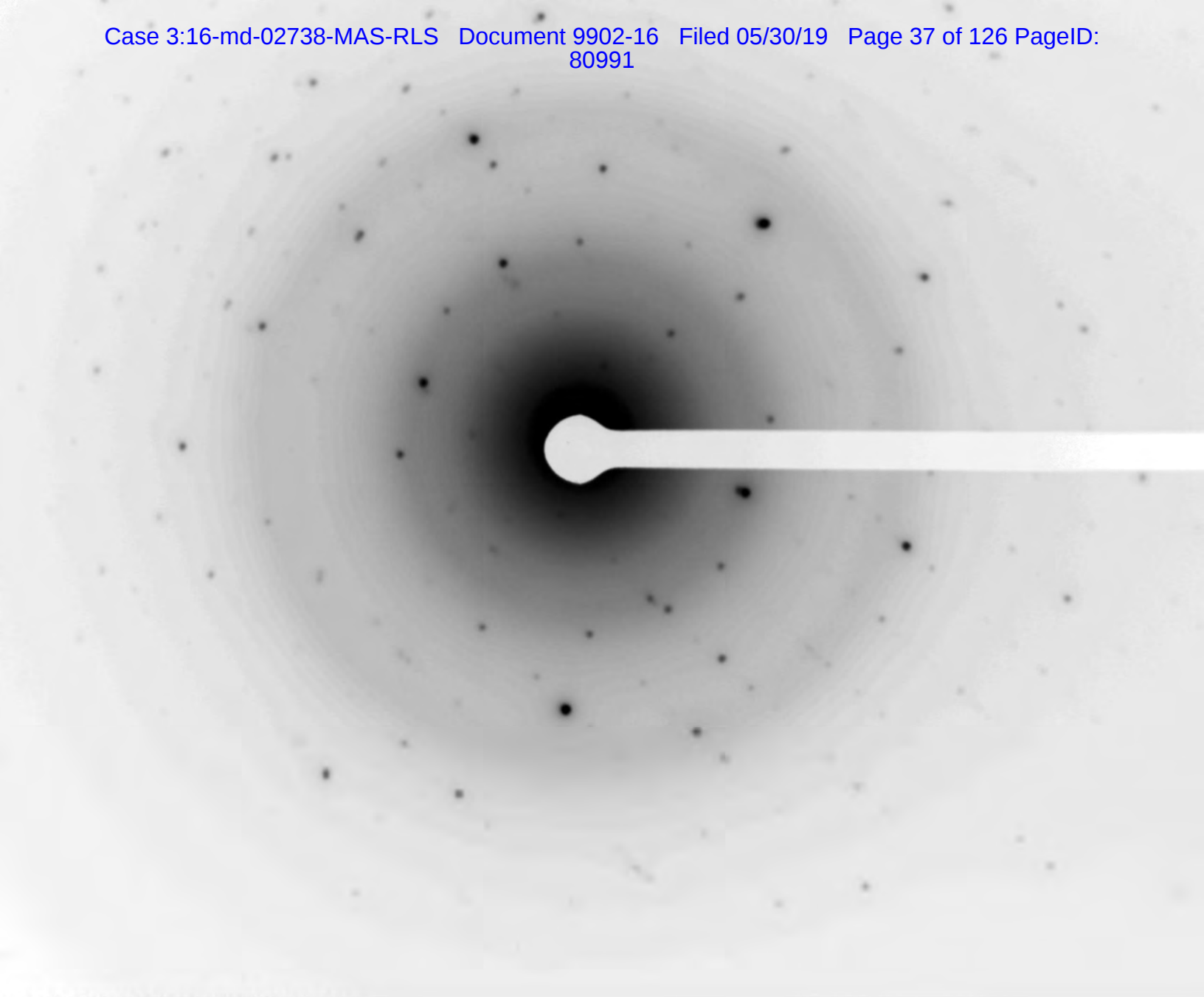
Author: lab
Creation: 12/16/2018 11:47:38 AM
Sample Name: Talc

M69757-007-003 Anthophyllite 2

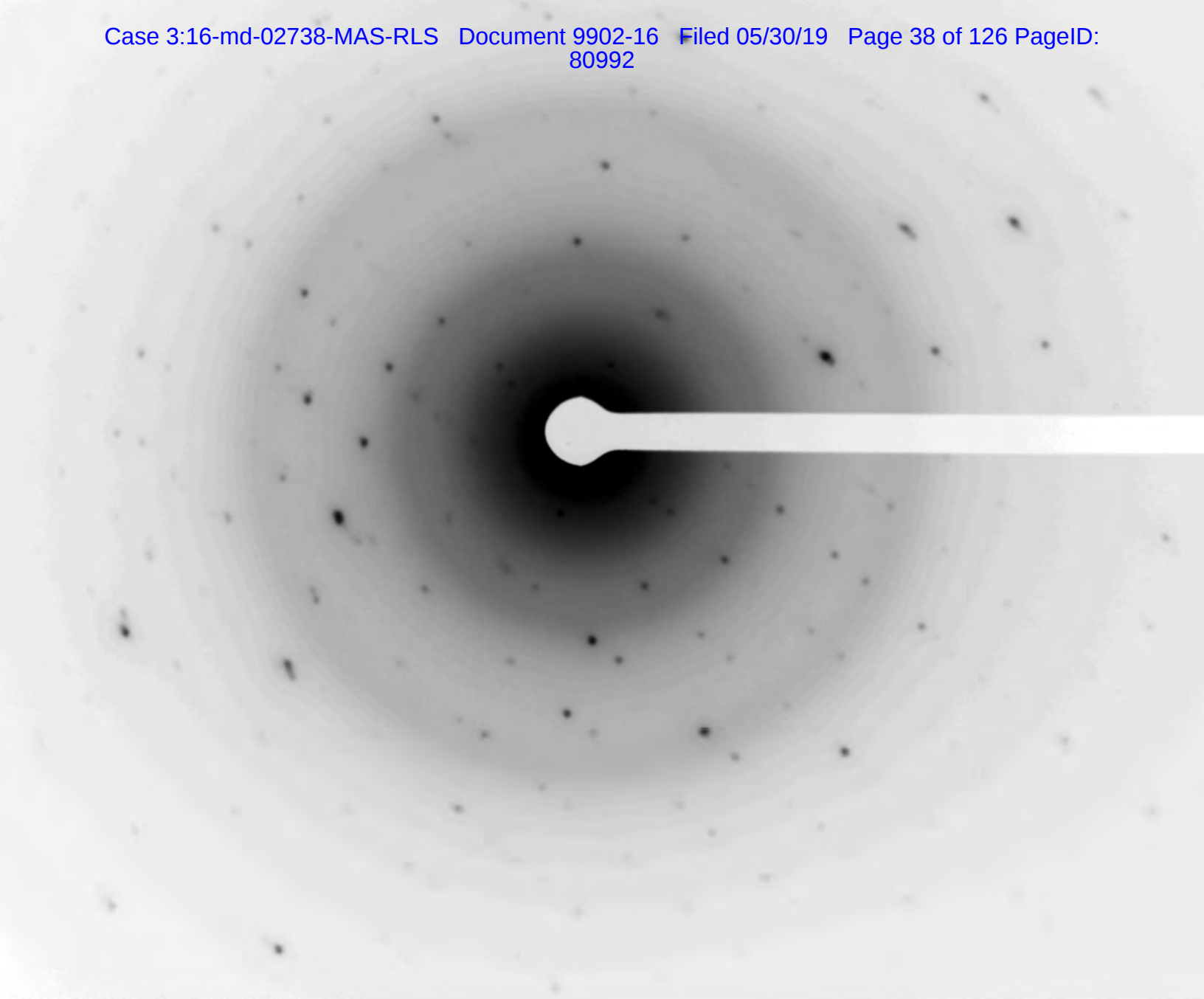
kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μ s): 3.84 Resolution:(eV) 131.8



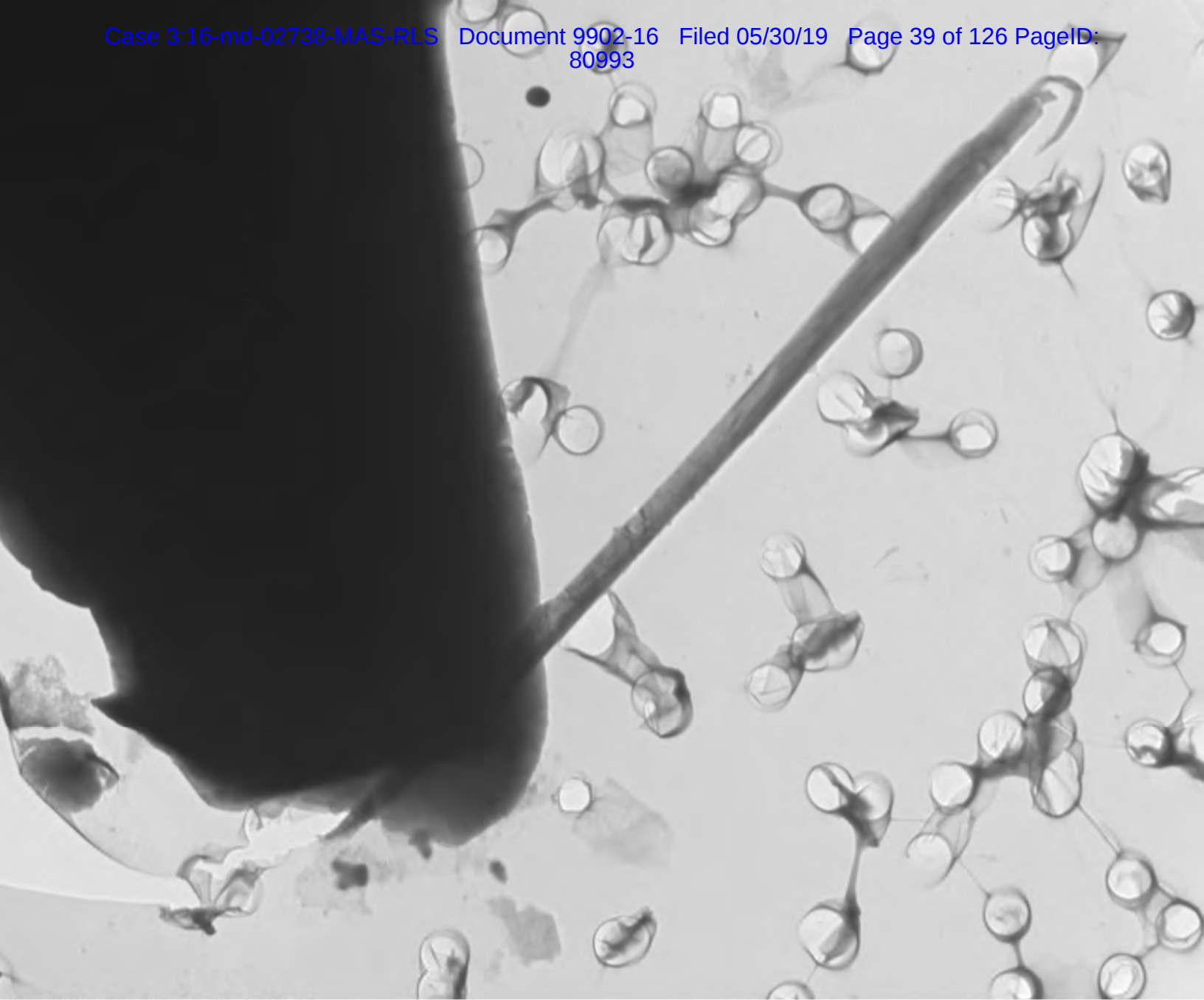
Lsec: 300.0 164 Cnts 4.350 keV Det: Apollo XLT2 SUTW



M69757-007-003 Anthophyllite Diffraction.tif
Diffraction @ 50cm
11:48 12/16/2018



M69757-007-003 Anthophyllite Diffraction 2.tif
Diffraction @ 50cm
12:00 12/16/2018



M69757-007-003 Anthophyllite Image.tif
(9.9um x 0.36um)
12:03 12/16/2018

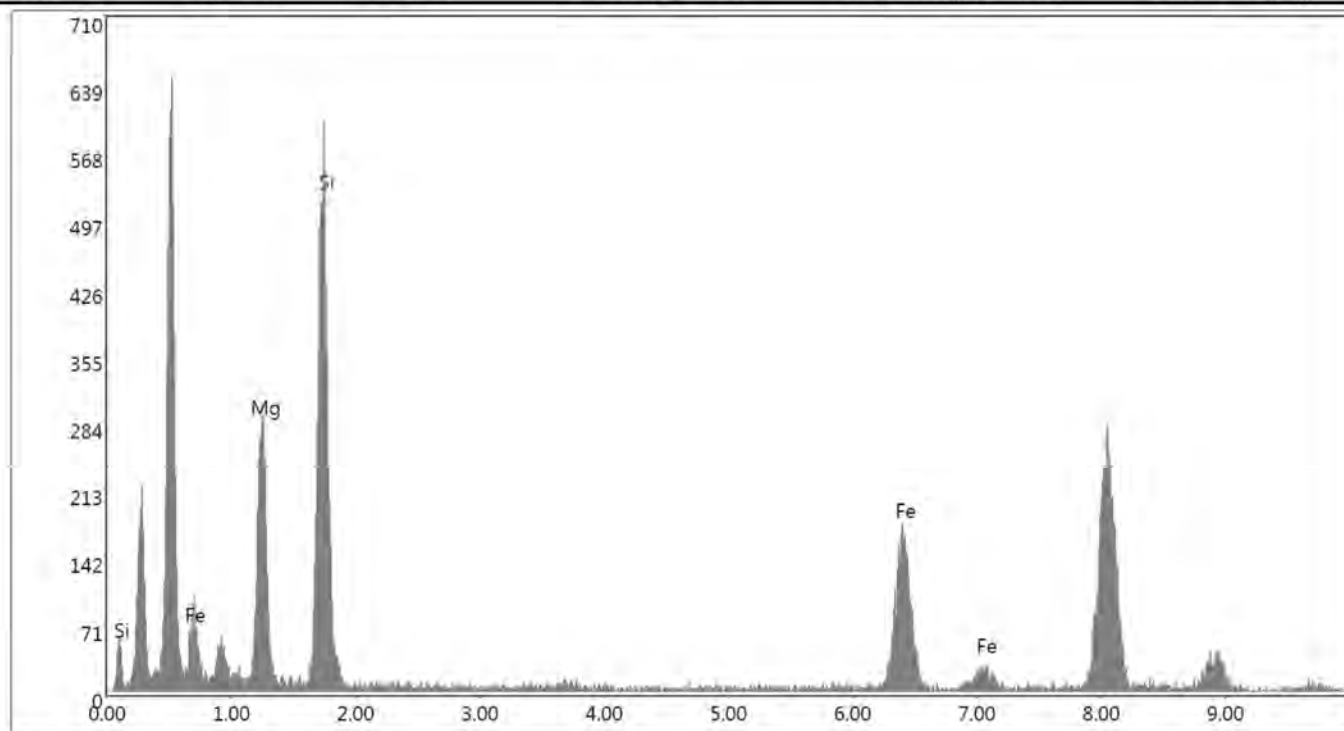
EDAX TEAM

Analysis

Author: lab
Creation: 12/16/2018 12:33:38 PM
Sample Name: Talc

M69757-007-004 Anthophyllite

kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μ s): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 7 Cnts 4.350 keV Det: Apollo XLT2 SUTW

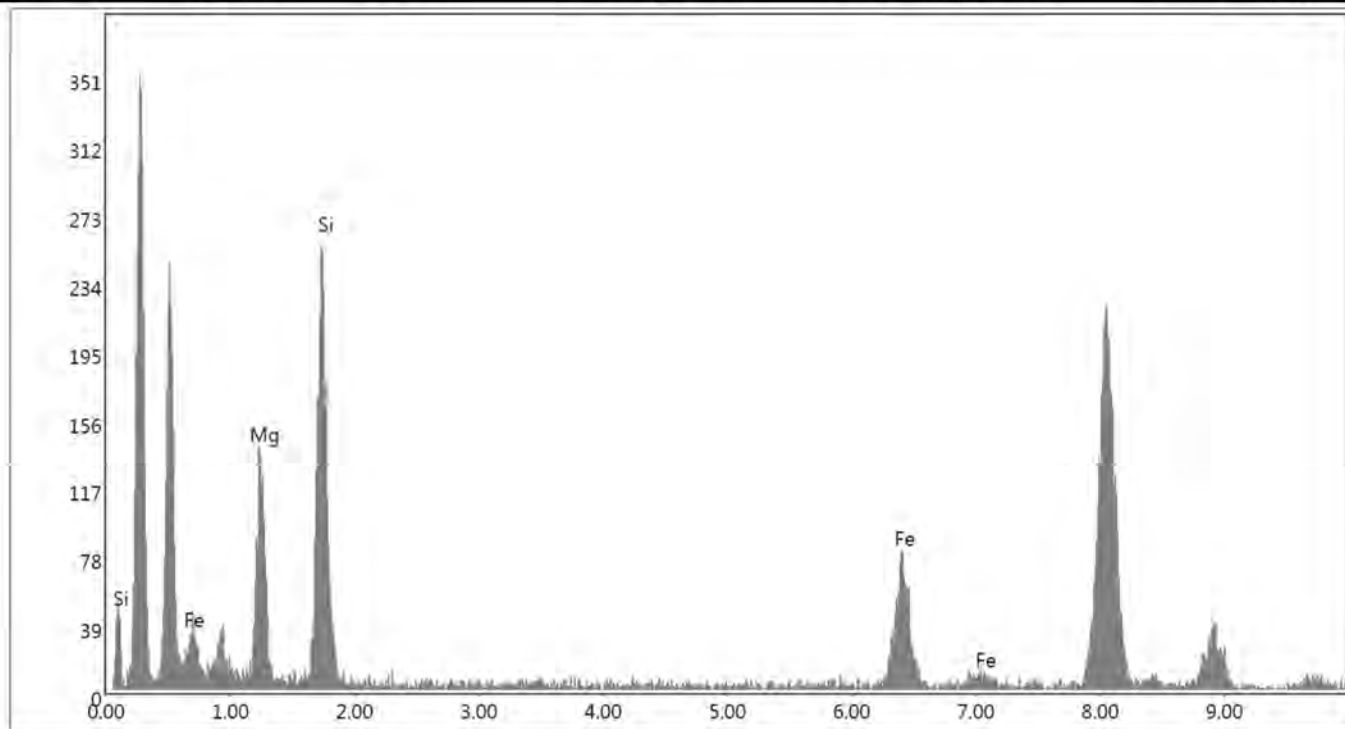
EDAX TEAM

Analysis

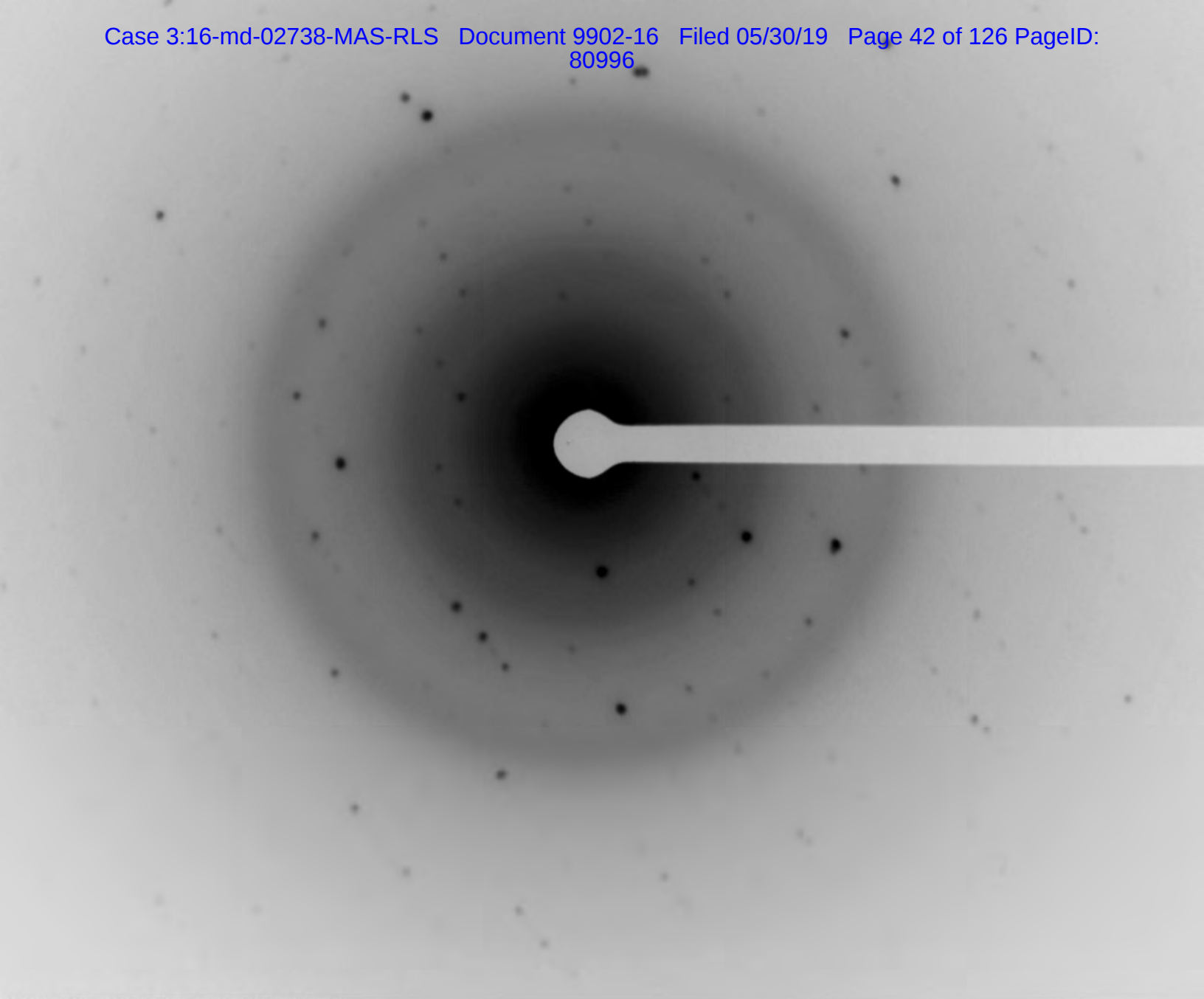
Author: lab
Creation: 12/16/2018 12:39:38 PM
Sample Name: Talc

M69757-007-004 Anthophyllite 2

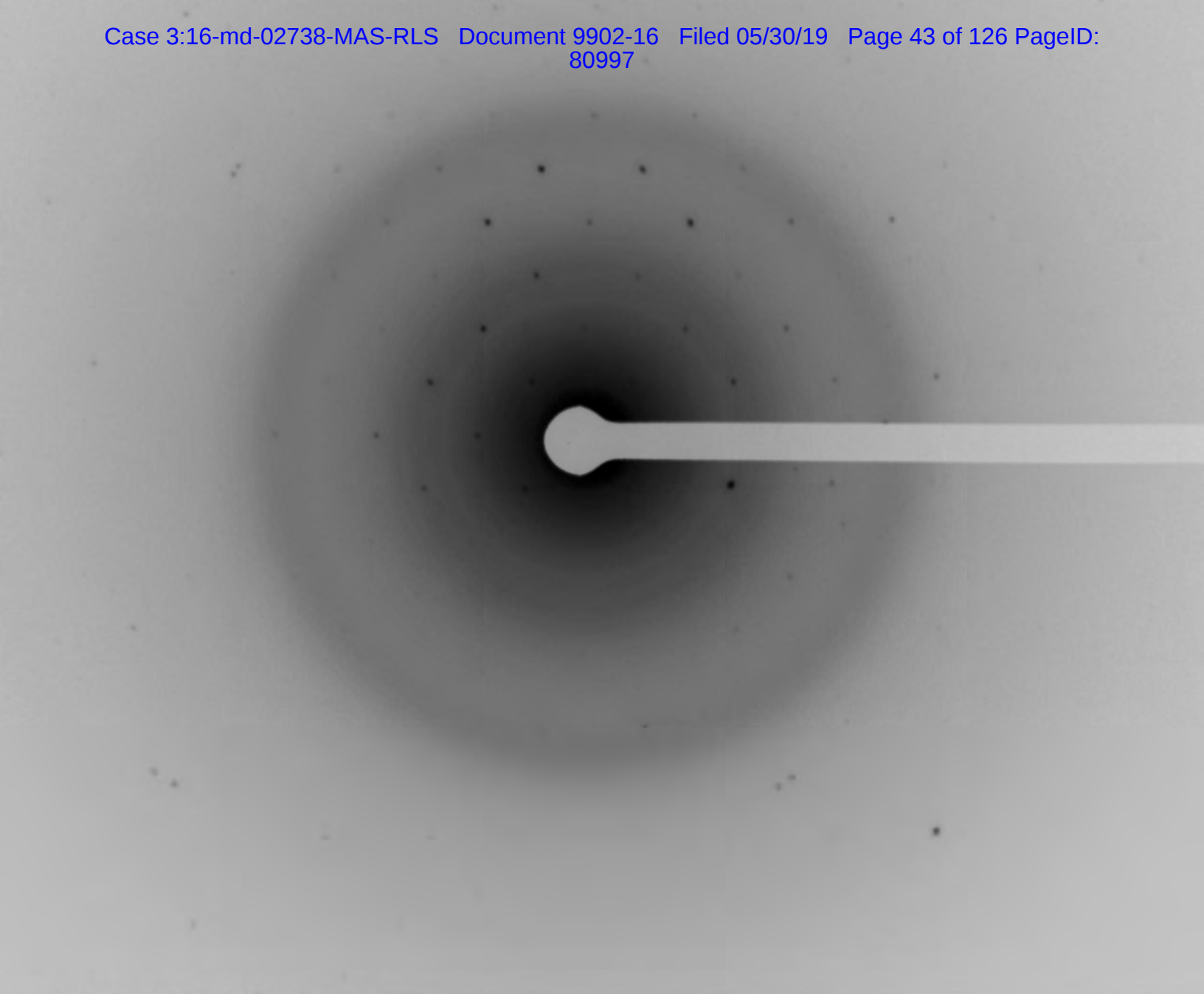
kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μ s): 3.84 Resolution:(eV) 131.8



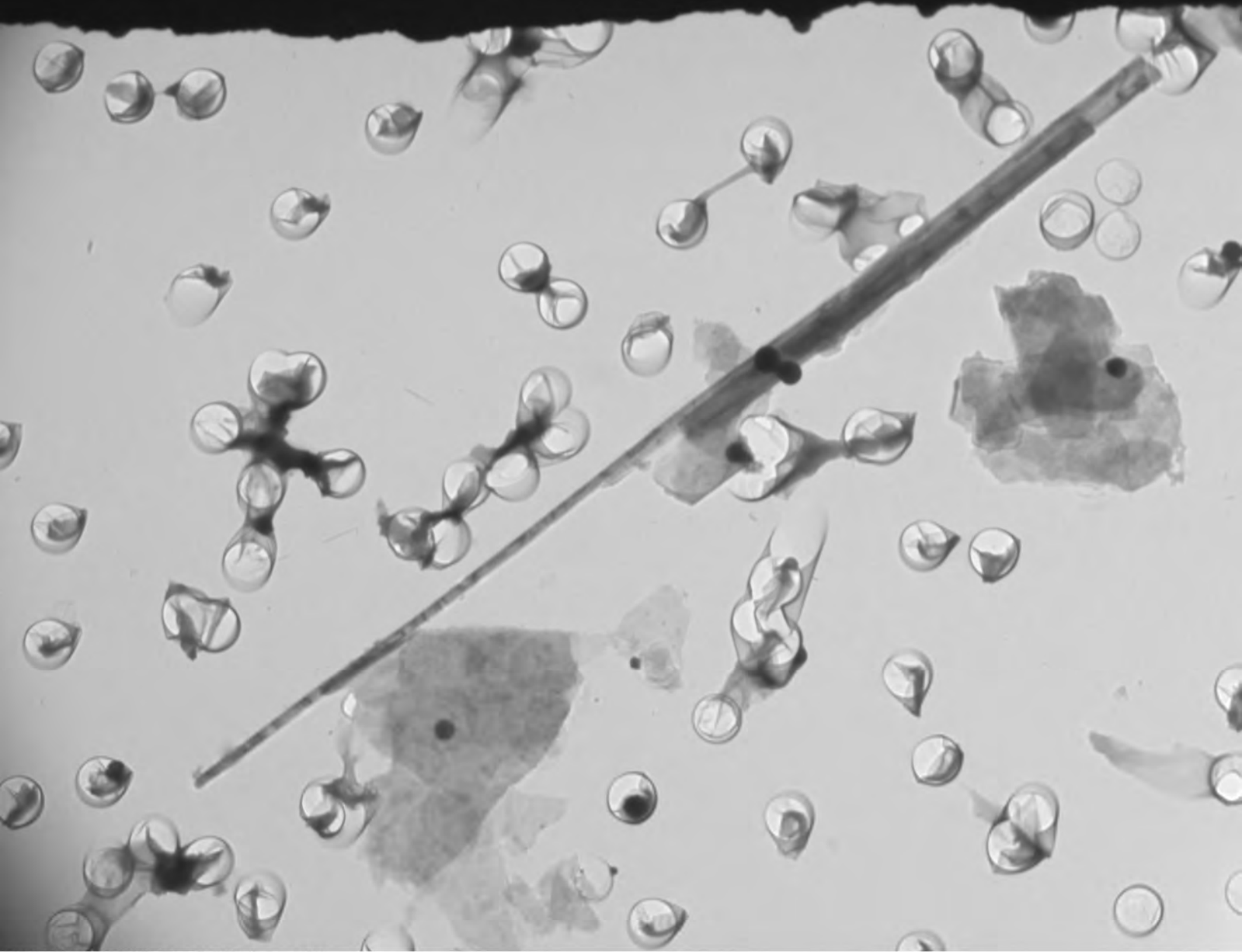
Lsec: 300.0 3 Cnts 4.350 keV Det: Apollo XLT2 SUTW



M69757-007-004 Anthophyllite Diffraction.tif
Diffraction @ 50cm
12:25 12/16/2018



M69757-007-004 Anthophyllite Diffraction 2.tif
Diffraction @ 50cm
12:42 12/16/2018



M69757-007-004 Anthophyllite Image.tif
(10.9um x 0.35um)
12:45 12/16/2018

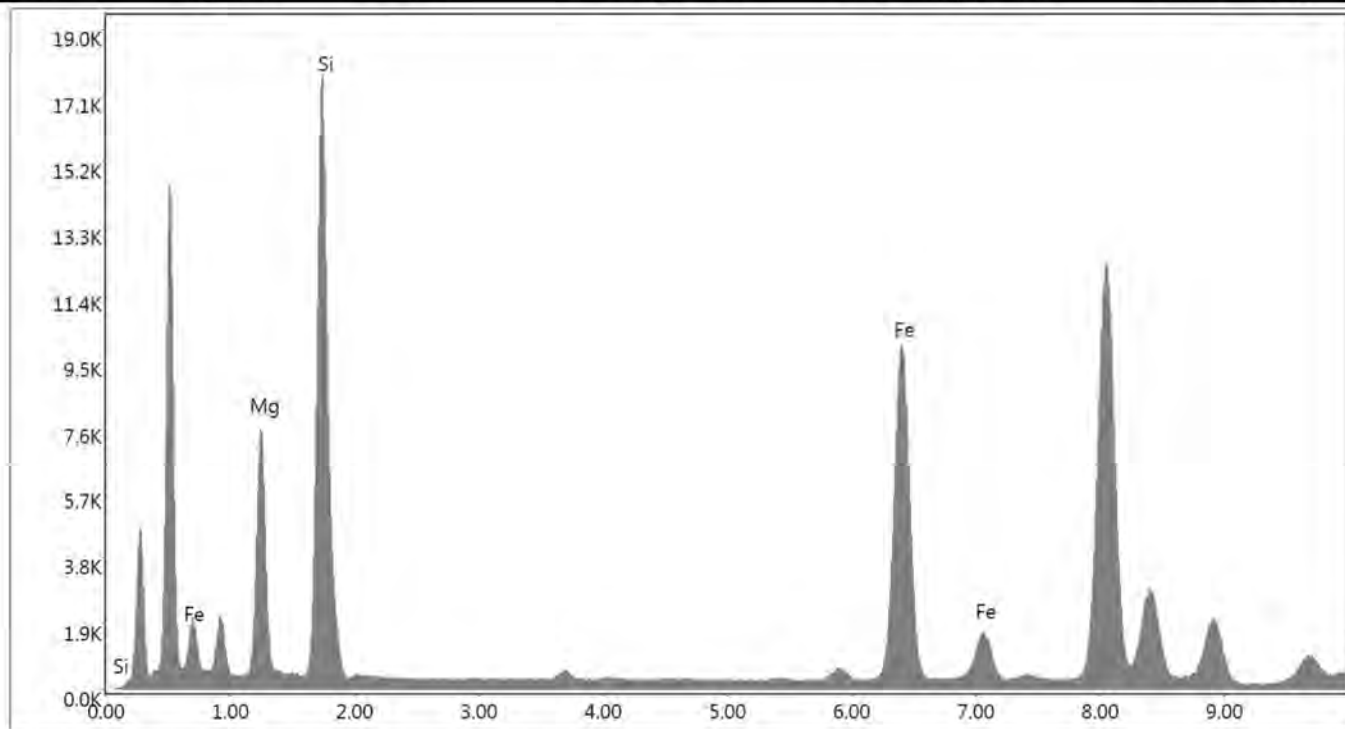
EDAX TEAM

Analysis

Author: lab
Creation: 12/17/2018 1:47:14 PM
Sample Name: Talc

M69757-007-005 Anthophyllite

kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μs): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 294 Cnts 4.350 keV Det: Apollo XLT2 SUTW

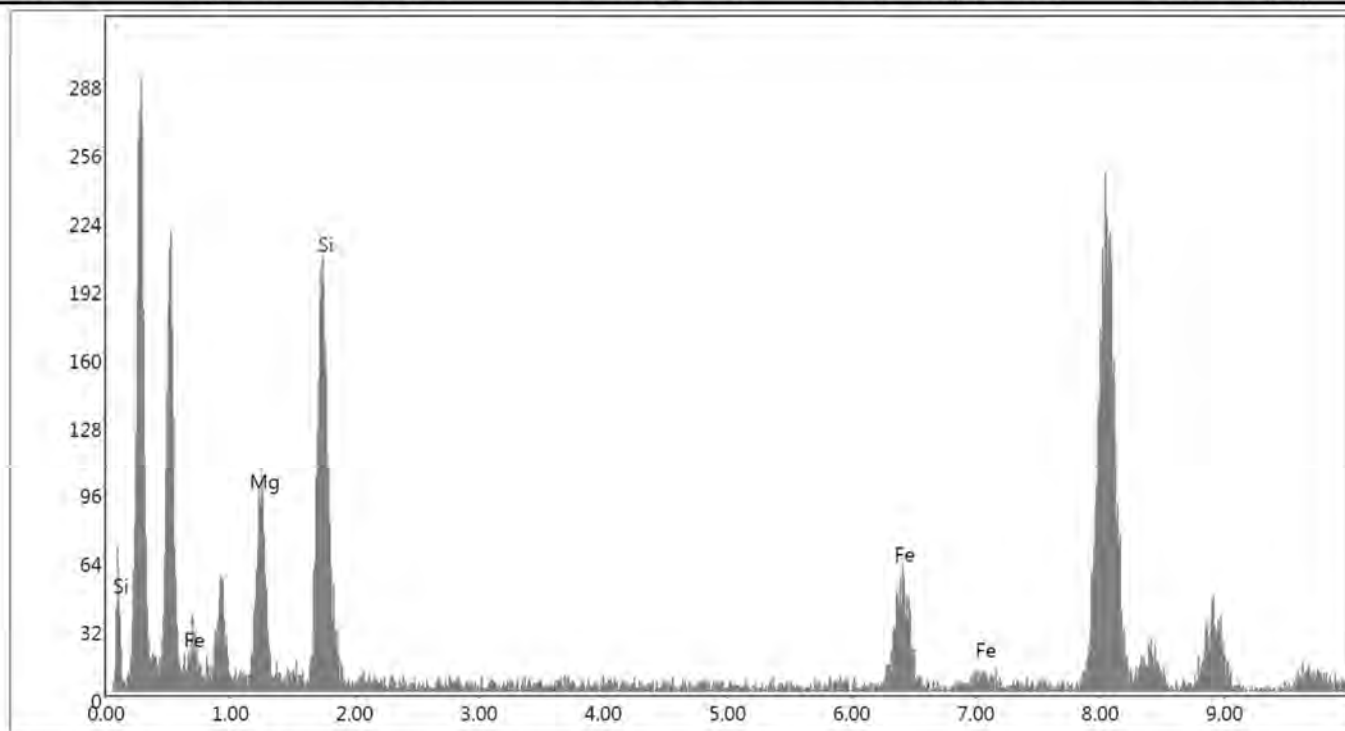
EDAX TEAM

Analysis

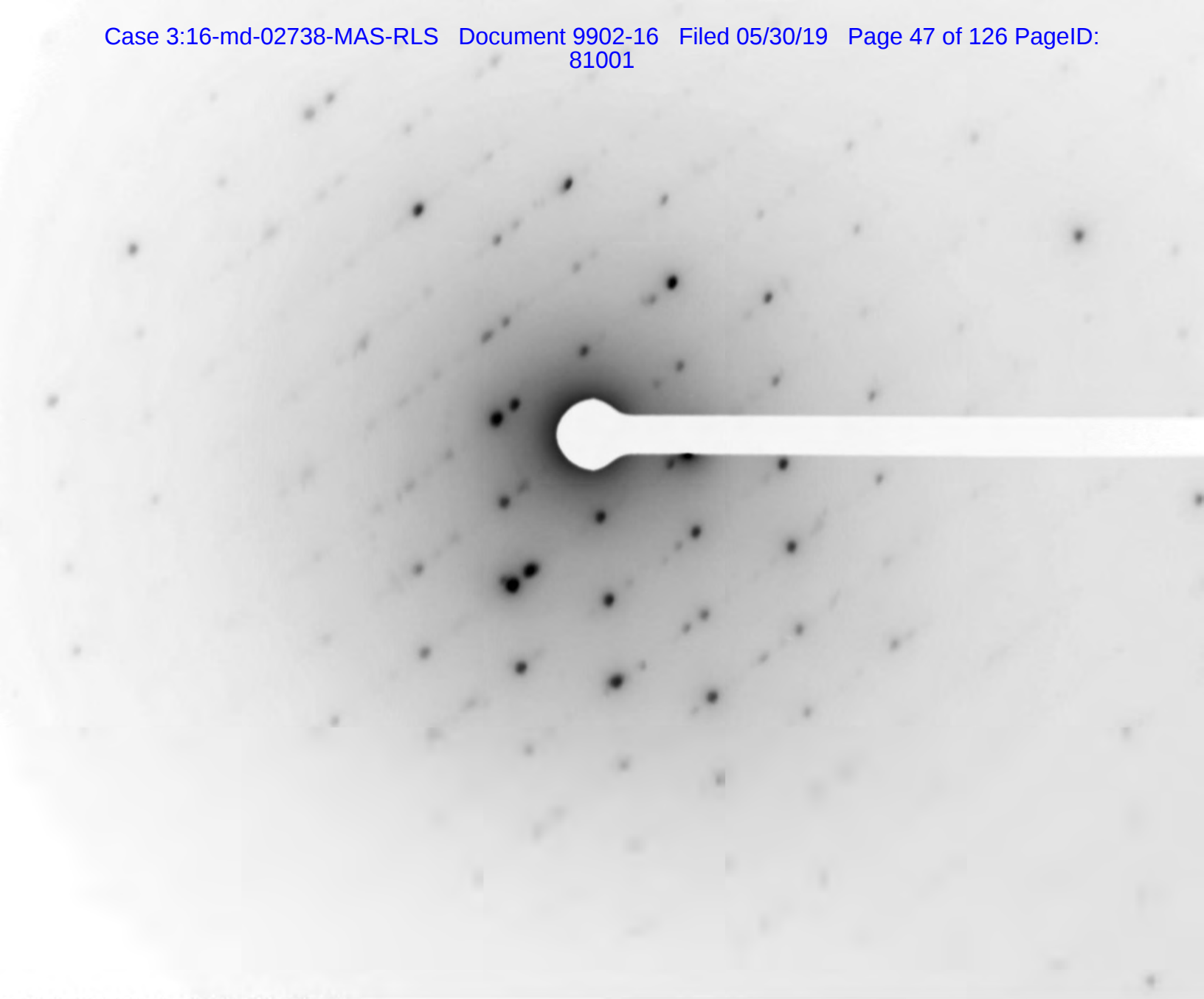
Author: lab
Creation: 12/17/2018 1:54:22 PM
Sample Name: Talc

M69757-007-005 Anthophyllite 2

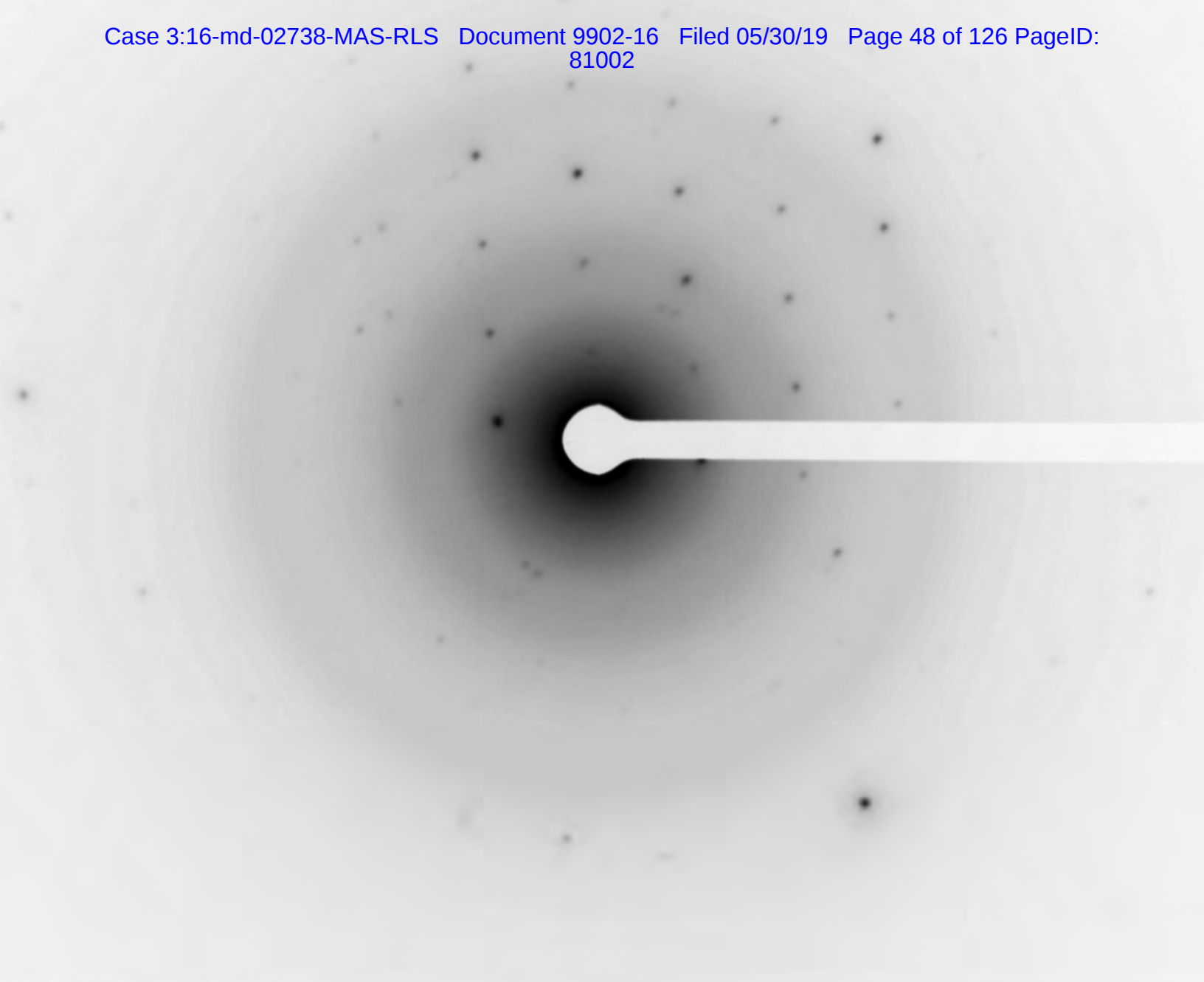
kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μ s): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 3 Cnts 4.350 keV Det: Apollo XLT2 SUTW

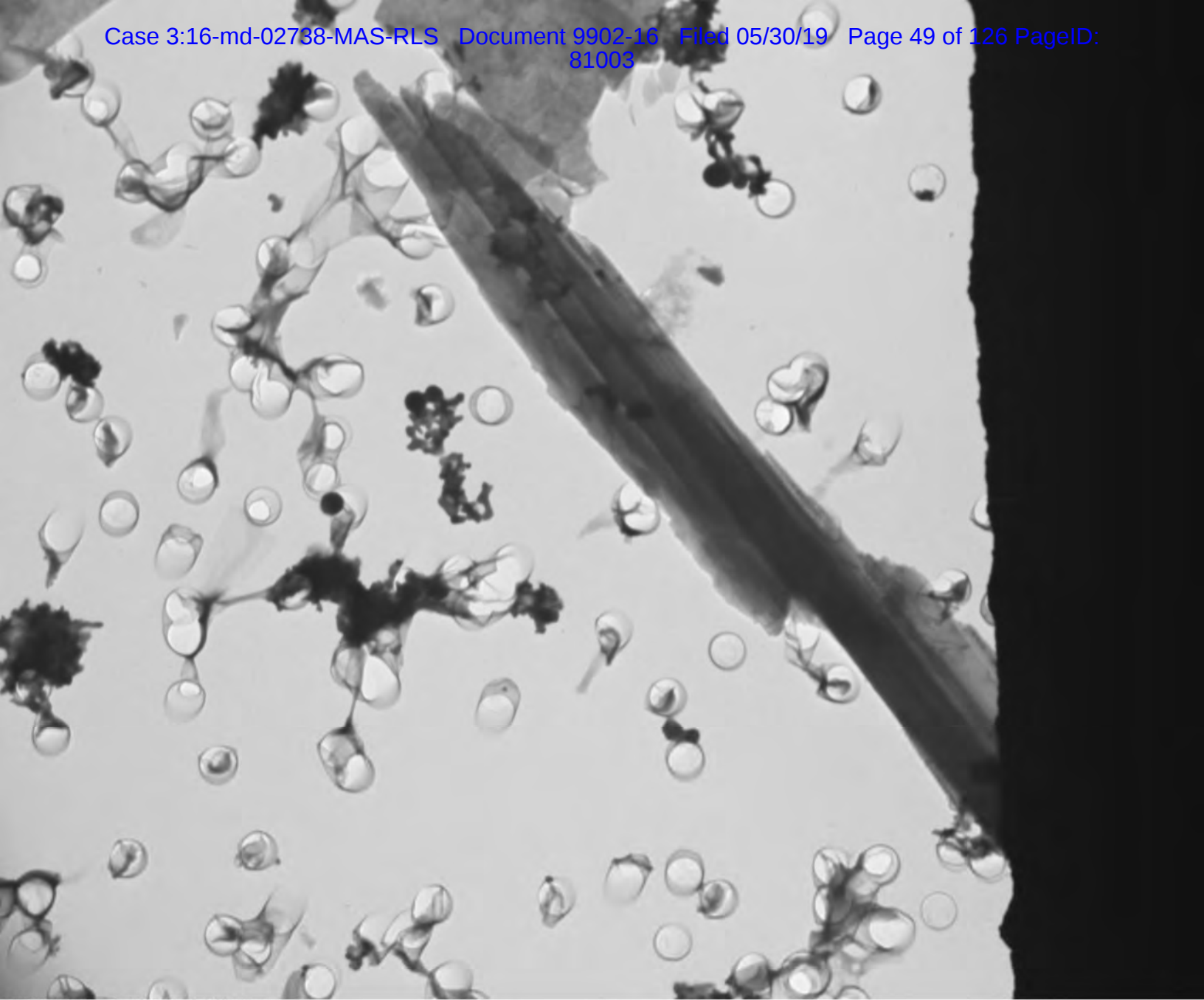


M69757-007-005 Anthophyllite Diffraction.tif
Diffraction @ 50cm
12:58 12/16/2018



The image displays a grayscale X-ray diffraction pattern. It features a central bright spot with a horizontal white beam stop extending to the right. Numerous diffraction spots are scattered across the pattern, with a higher density of spots in the upper half. Faint concentric rings are also visible, indicating the polycrystalline nature of the sample.

M69757-007-005 Anthophyllite Diffraction 2.tif
Diffraction @ 50cm
13:38 12/17/2018



M69757-007-005 Anthophyllite Image.tif
(11.7um x 1.4um)
13:13 12/16/2018

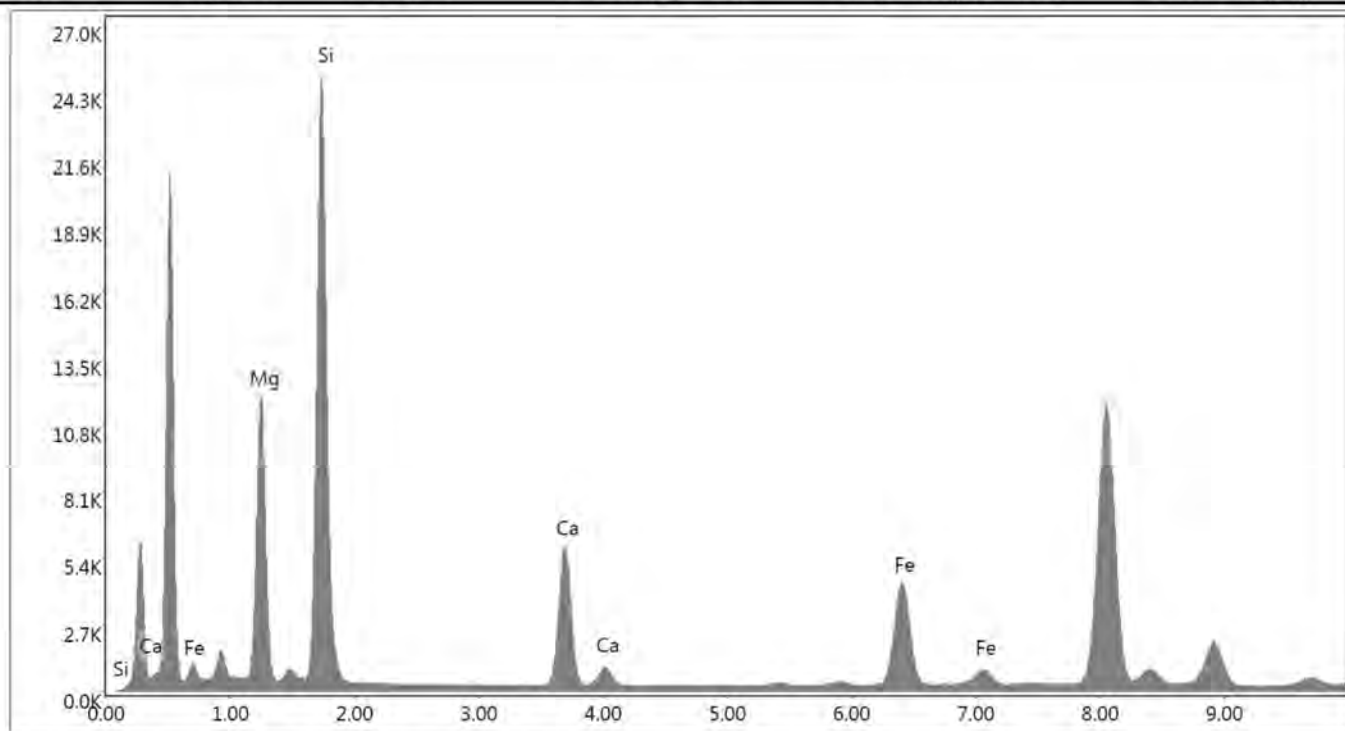
EDAX TEAM

Analysis

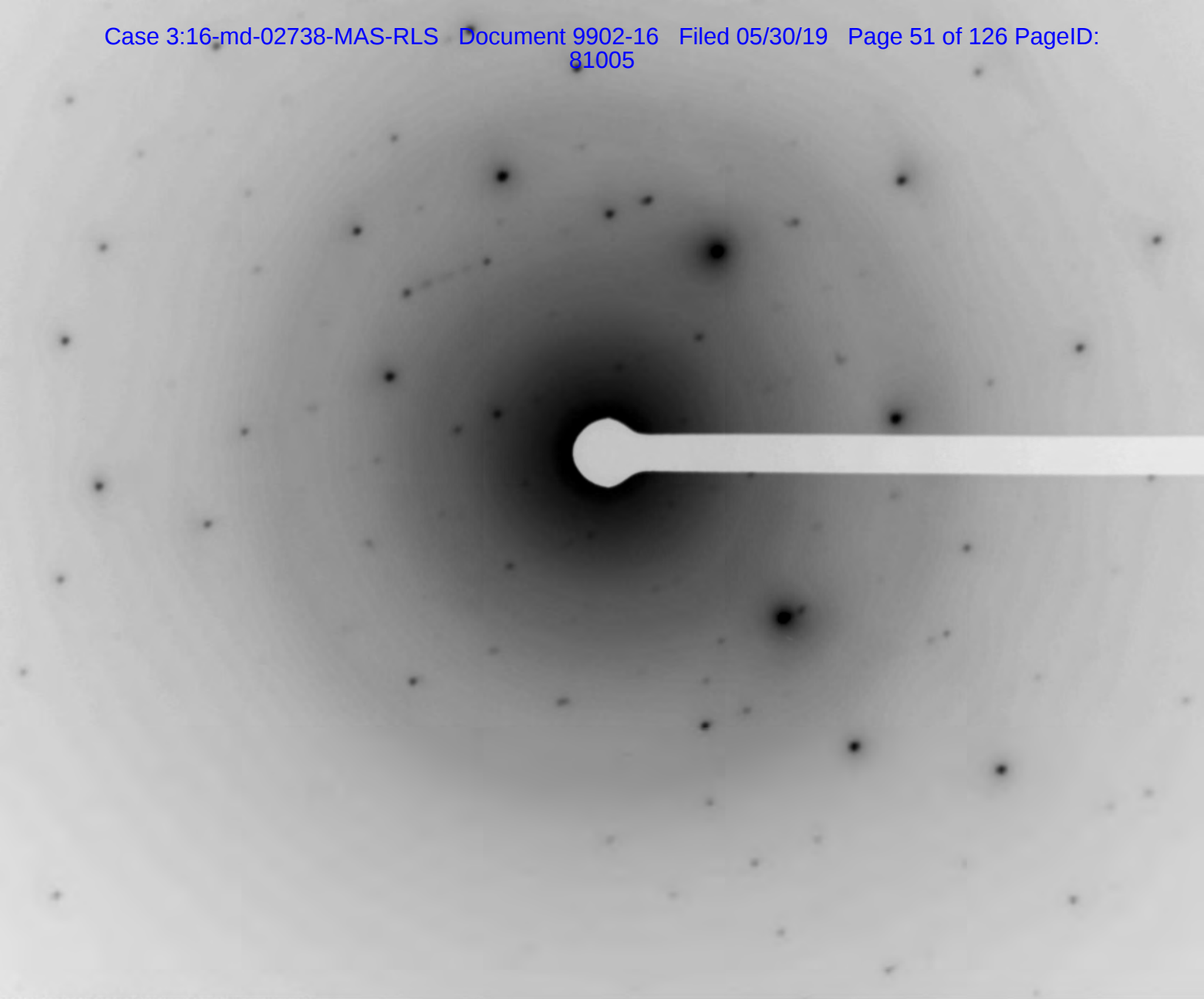
Author: lab
Creation: 12/16/2018 4:37:08 PM
Sample Name: Talc

M69757-007-006 Actinolite

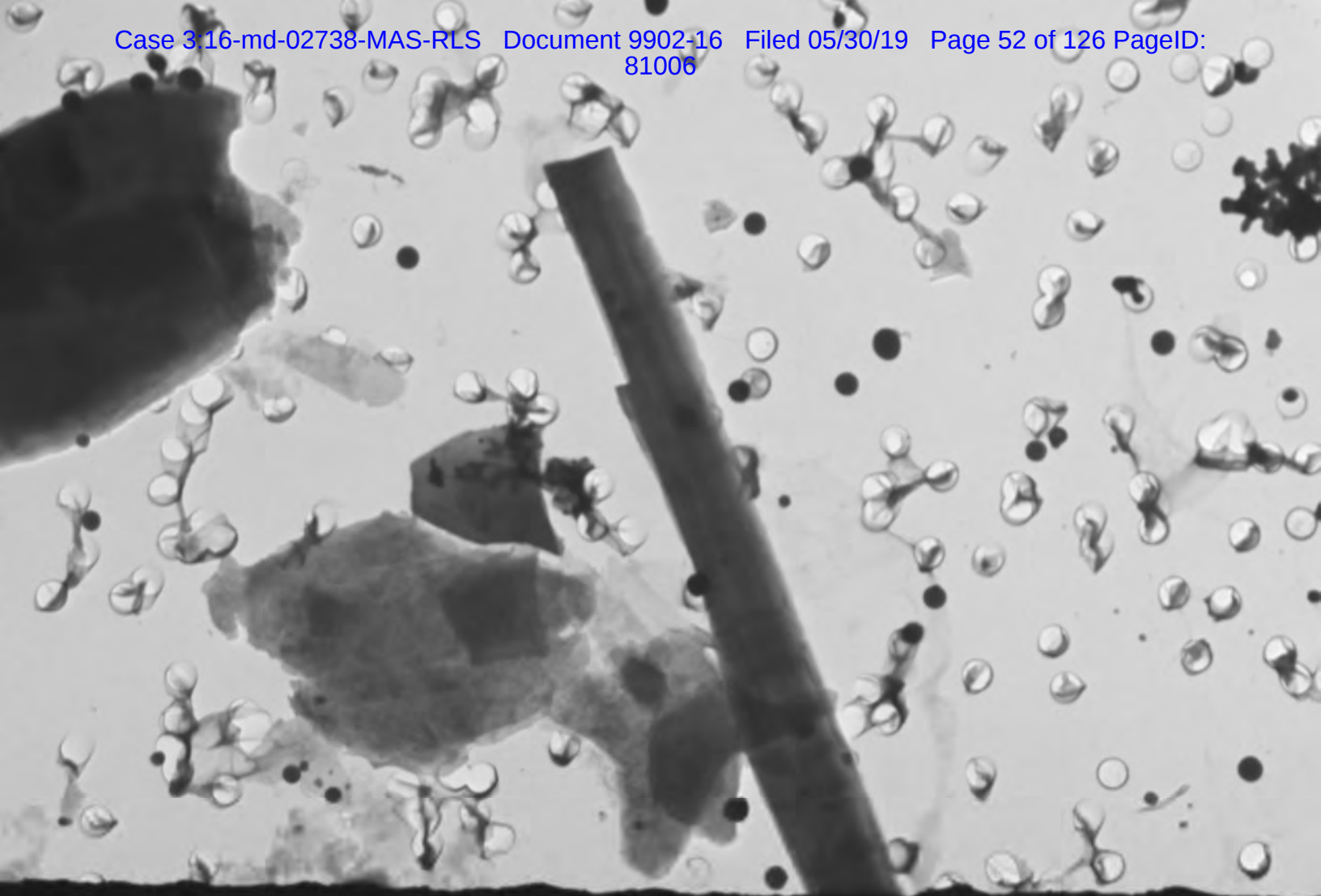
kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μs): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 237 Cnts 4.350 keV Det: Apollo XLT2 SUTW



M69757-007-006 Actinolite Diffraction.tif
Diffraction @ 50cm
16:28 12/16/2018



M69757-007-006 Actinolite Image.tif
(11.6um x 1.1um)
16:36 12/16/2018

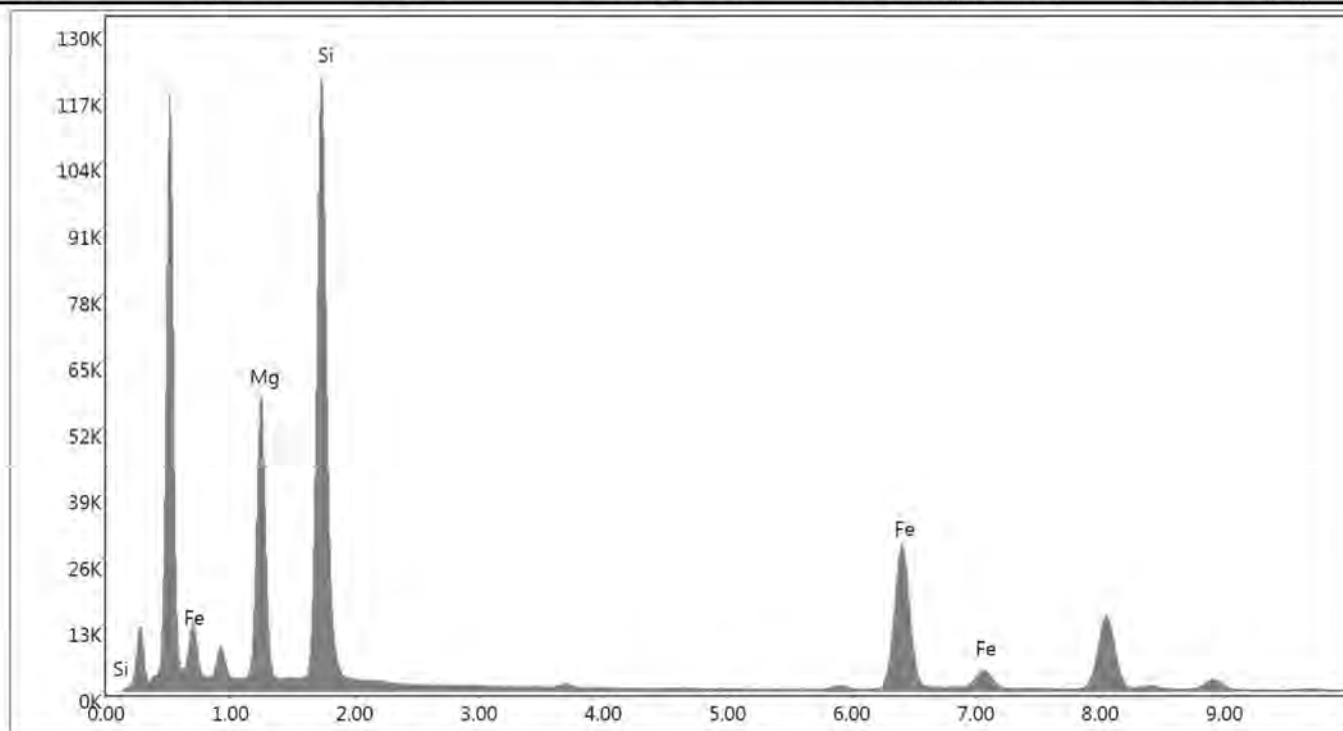
EDAX TEAM

Analysis

Author: lab
Creation: 12/16/2018 5:03:15 PM
Sample Name: Talc

M69757-007-007 Anthophyllite

kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μ s): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 673 Cnts 4.350 keV Det: Apollo XLT2 SUTW

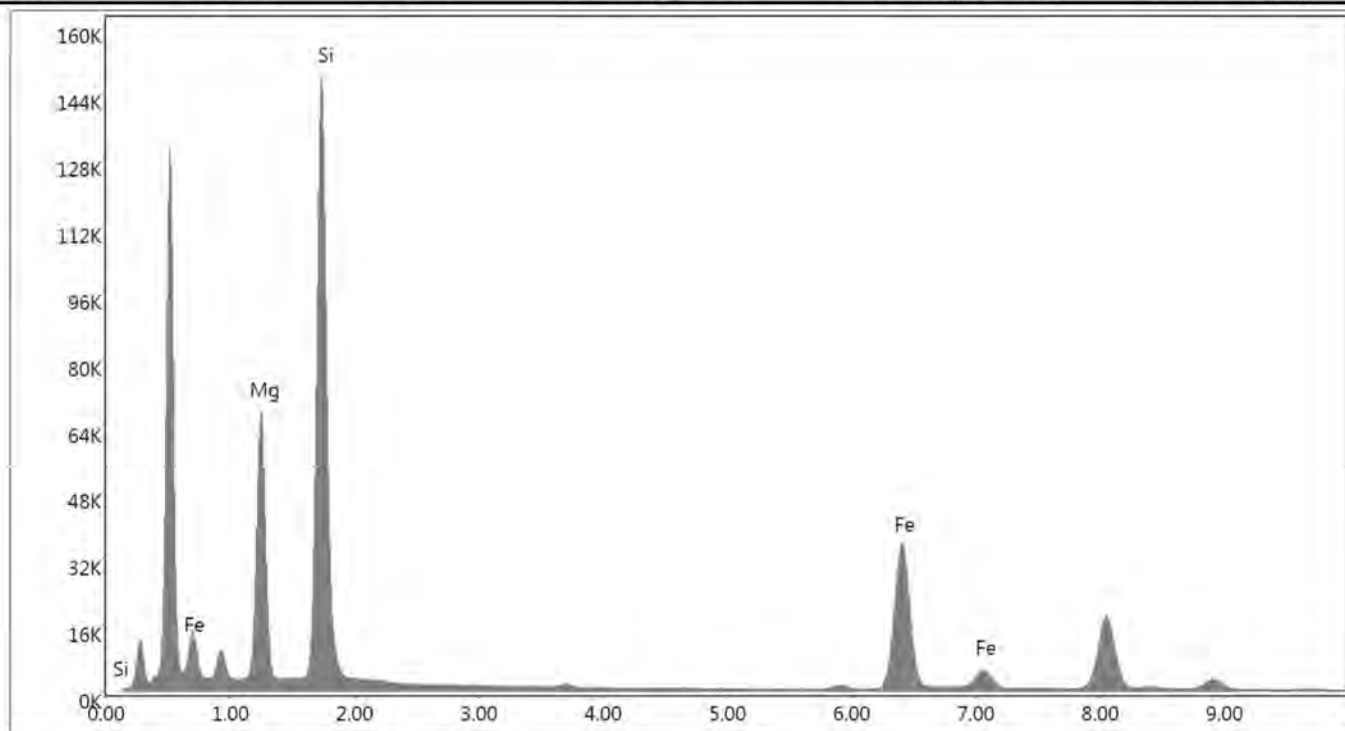
EDAX TEAM

Analysis

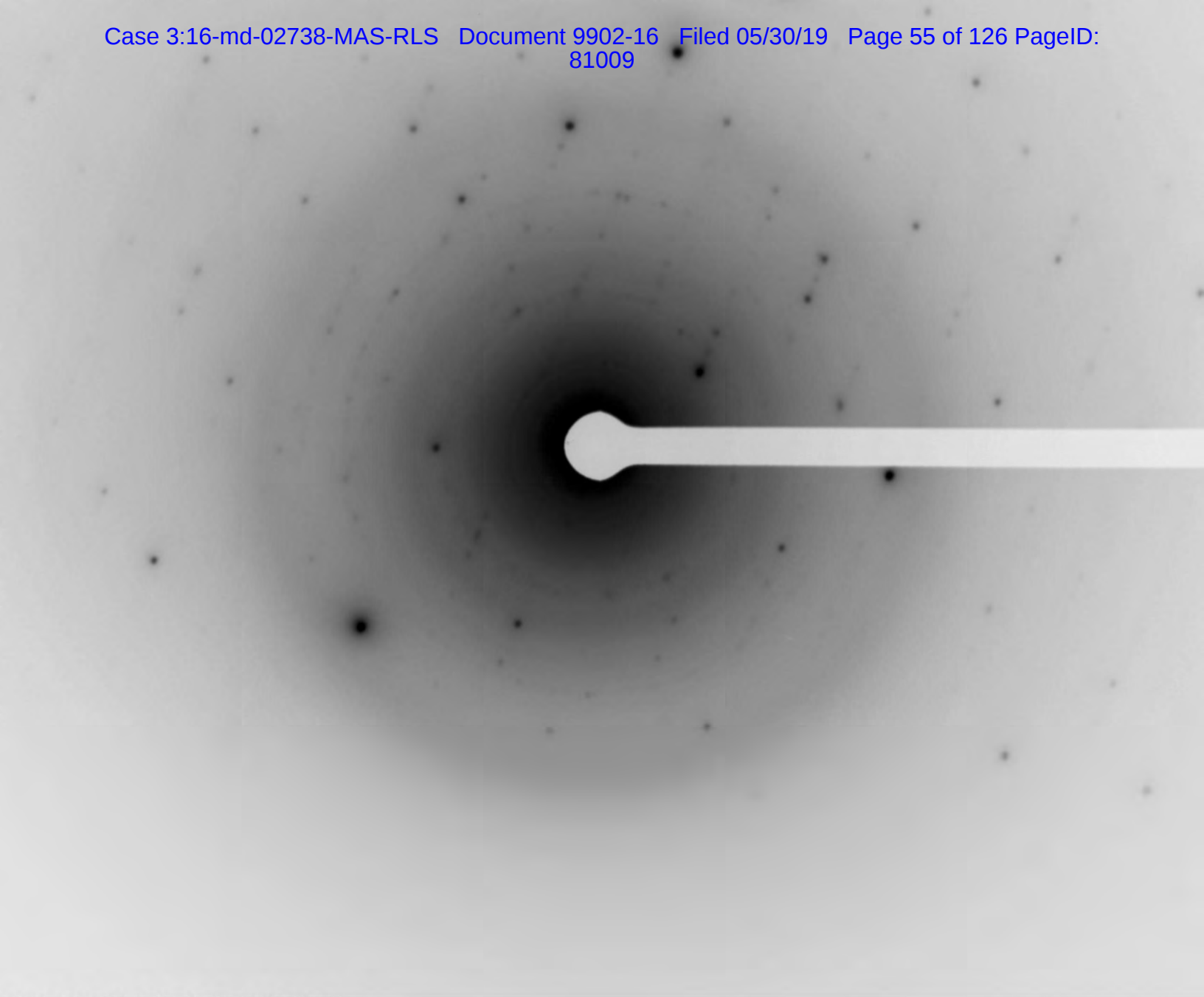
Author: lab
Creation: 12/16/2018 5:09:41 PM
Sample Name: Talc

M69757-007-007 Anthophyllite 2

kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μs): 3.84 Resolution:(eV) 131.8

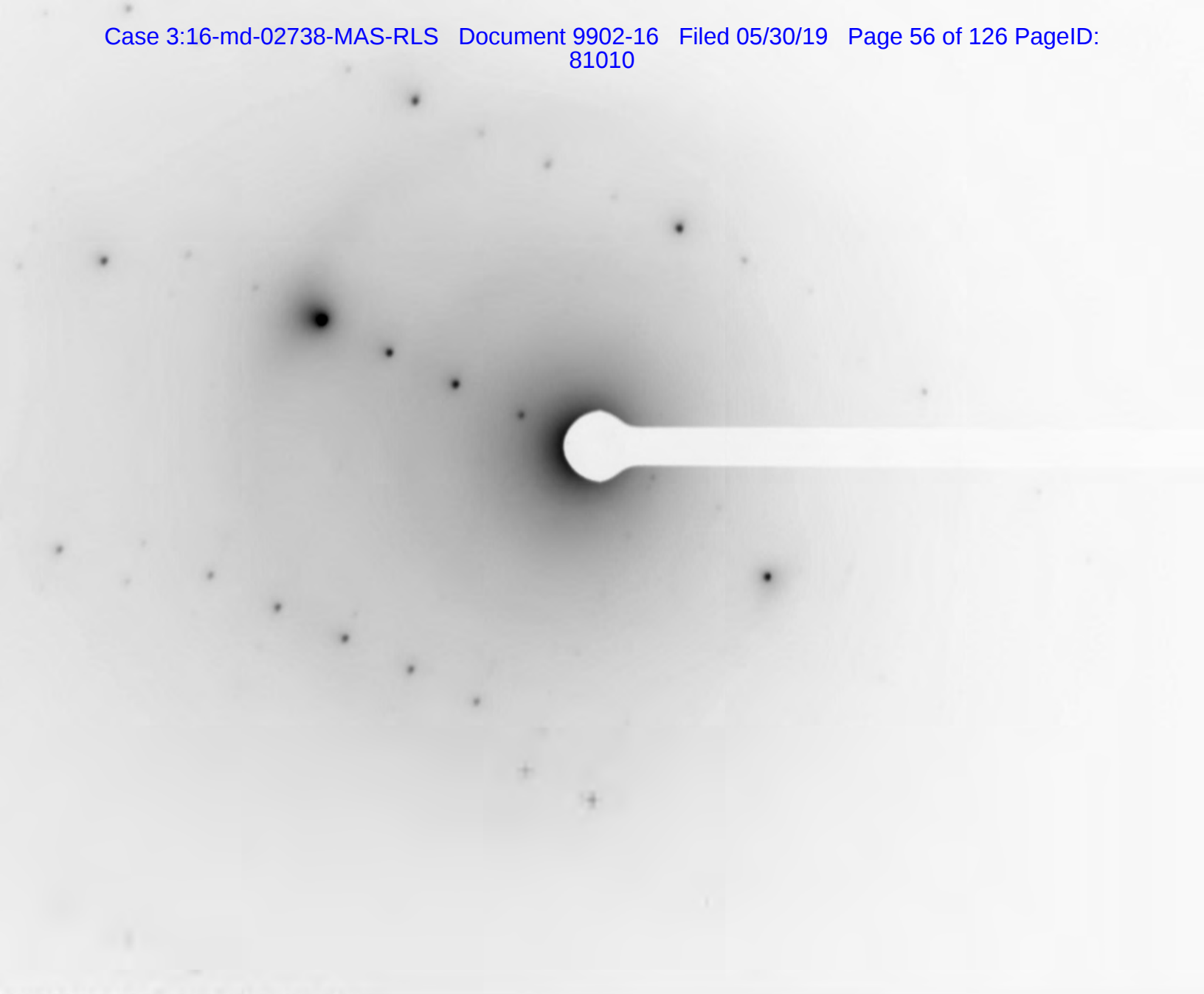


Lsec: 300.0 888 Cnts 4.350 keV Det: Apollo XLT2 SUTW

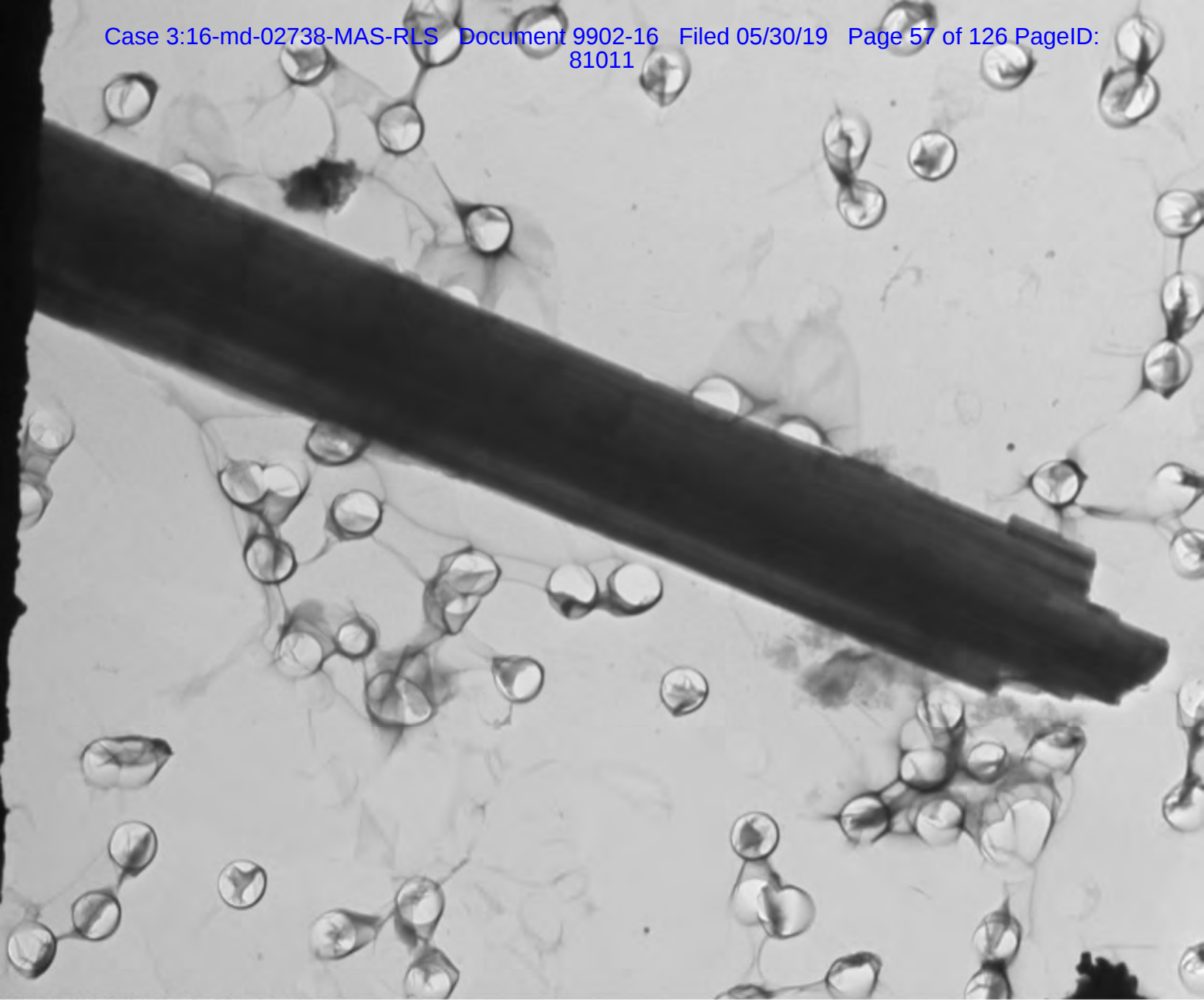


M69757-007-007 Anthophyllite Diffraction.tif
Diffraction @ 50cm
17:13 12/16/2018

The image displays a grayscale X-ray diffraction pattern. A bright, horizontal beam of light enters from the right side, creating a sharp, circular diffraction spot at its point of impact. From this central spot, numerous smaller, fainter diffraction spots are scattered across the field of view, forming a diffuse, circular pattern. The background is a uniform, light gray.



M69757-007-007 Anthophyllite Diffraction 2.tif
Diffraction @ 50cm
17:17 12/16/2018



M69757-007-007 Anthophyllite Image.tif
(11.8um x 1.6um)
17:19 12/16/2018

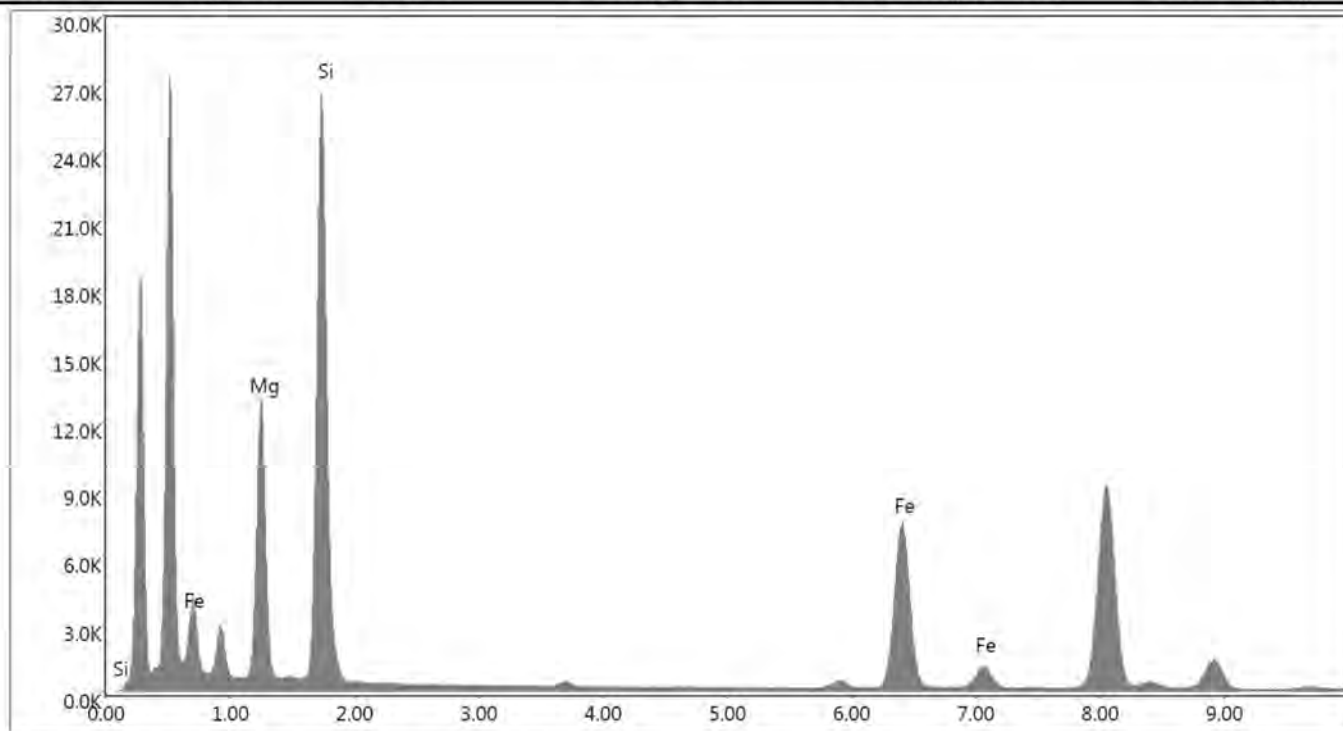
EDAX TEAM

Analysis

Author: lab
Creation: 12/17/2018 7:53:59 AM
Sample Name: Talc

M69757-007-008 Anthophyllite

kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μ s): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 195 Cnts 4.350 keV Det: Apollo XLT2 SUTW

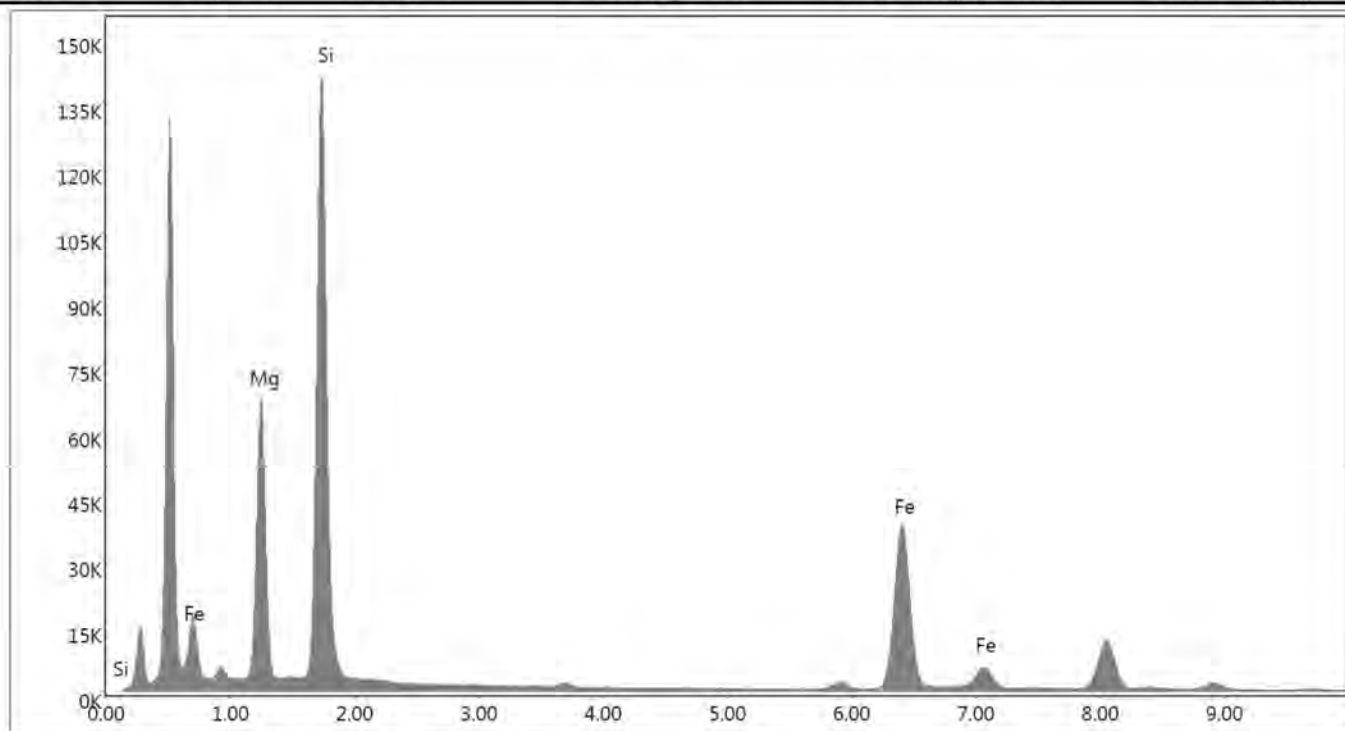
EDAX TEAM

Analysis

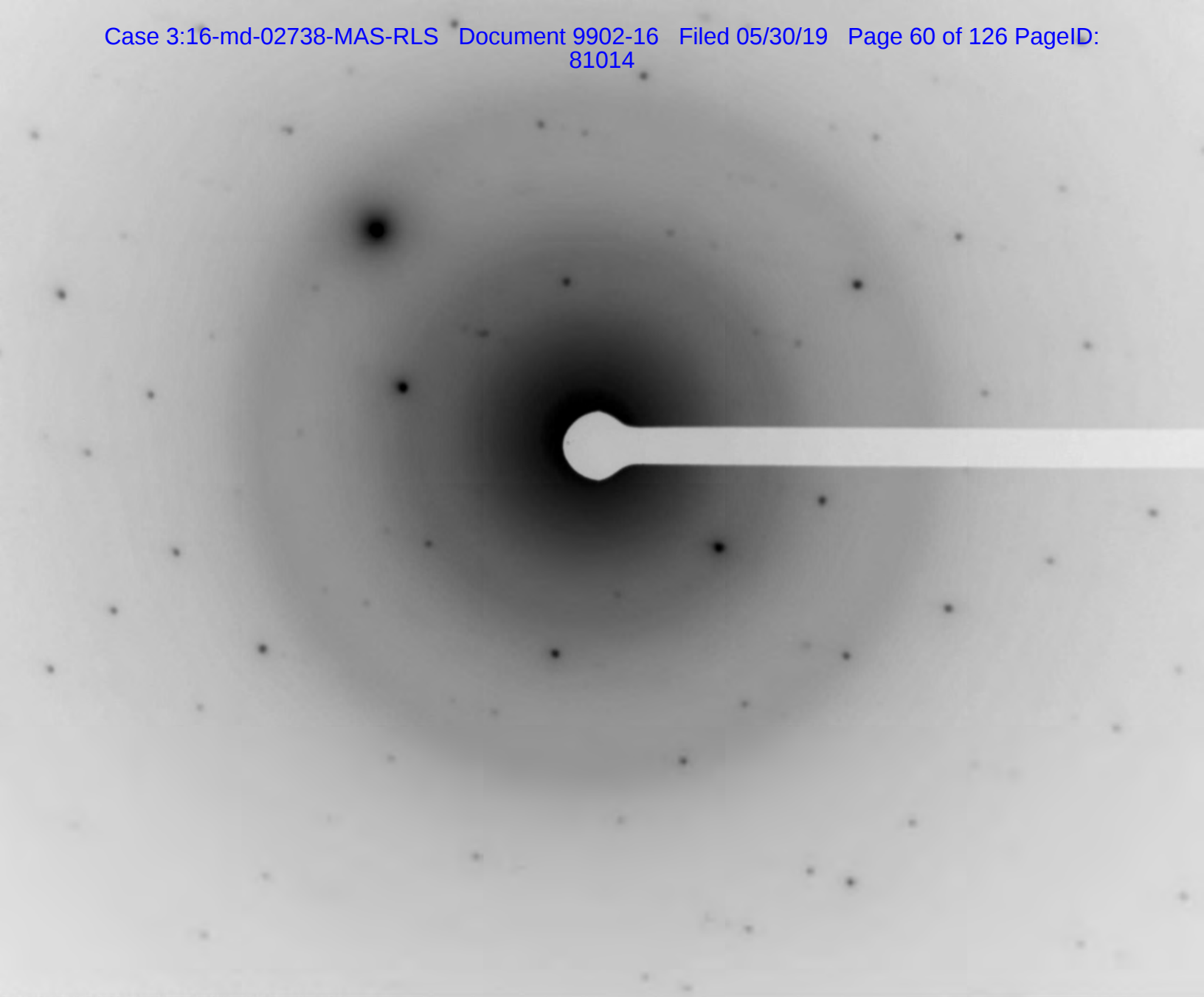
Author: lab
Creation: 12/17/2018 8:00:27 AM
Sample Name: Talc

M69757-007-008 Anthophyllite 2

kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μ s): 3.84 Resolution:(eV) 131.8

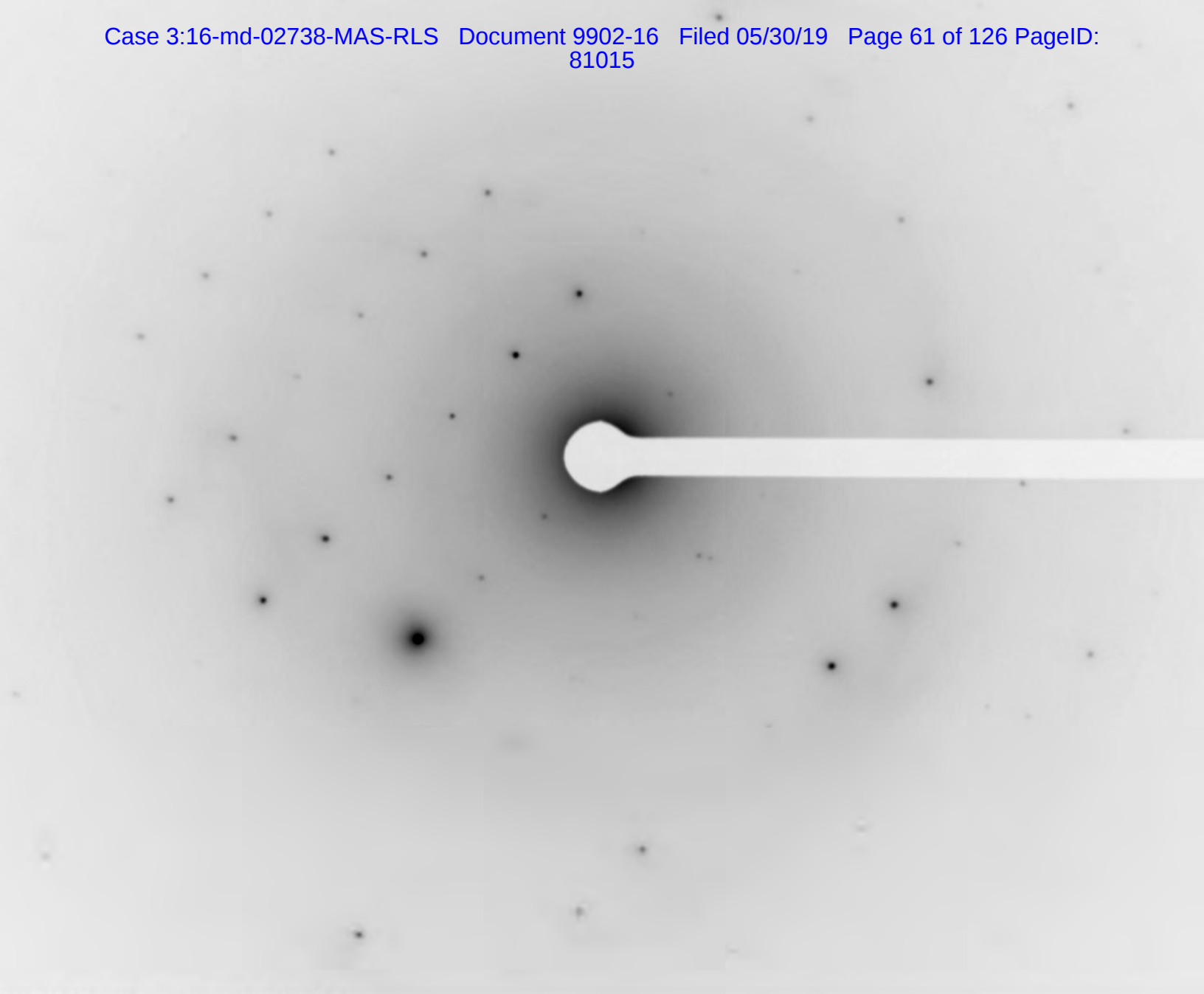


Lsec: 300.0 847 Cnts 4.350 keV Det: Apollo XLT2 SUTW



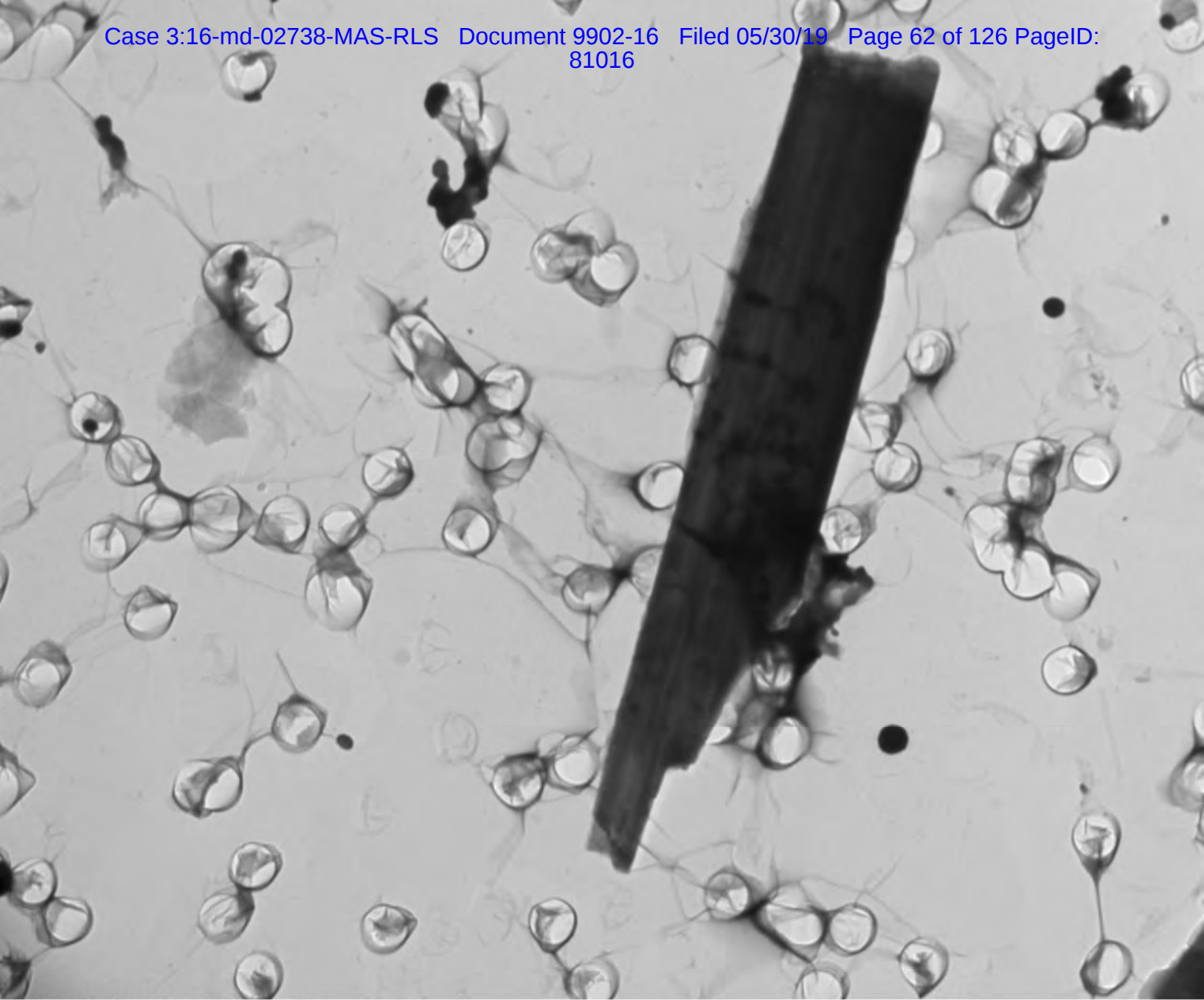
M69757-007-008 Anthophyllite Diffraction.tif
Diffraction @ 50cm
07:45 12/17/2018

The image displays a typical X-ray diffraction pattern for a crystalline material. It features a central bright spot (the direct beam) surrounded by a series of concentric, diffuse halos. Superimposed on these halos are numerous sharp, dark diffraction spots, which are the result of constructive interference of X-rays by the crystal lattice. A prominent horizontal white line, likely a beam stop or a physical barrier, extends from the center towards the right edge of the image.



M69757-007-008 Anthophyllite Diffraction 2.tif
Diffraction @ 50cm
08:03 12/17/2018

The image displays a grayscale X-ray diffraction pattern. A central bright spot is surrounded by a series of concentric, faint rings. Superimposed on these rings are numerous sharp, dark diffraction spots of varying sizes. A prominent, bright horizontal line extends from the center towards the right edge of the frame. The overall background is a light gray with some subtle texture and noise.



M69757-007-008 Anthophyllite Image.tif
(8.0um x 1.3um)
08:06 12/17/2018

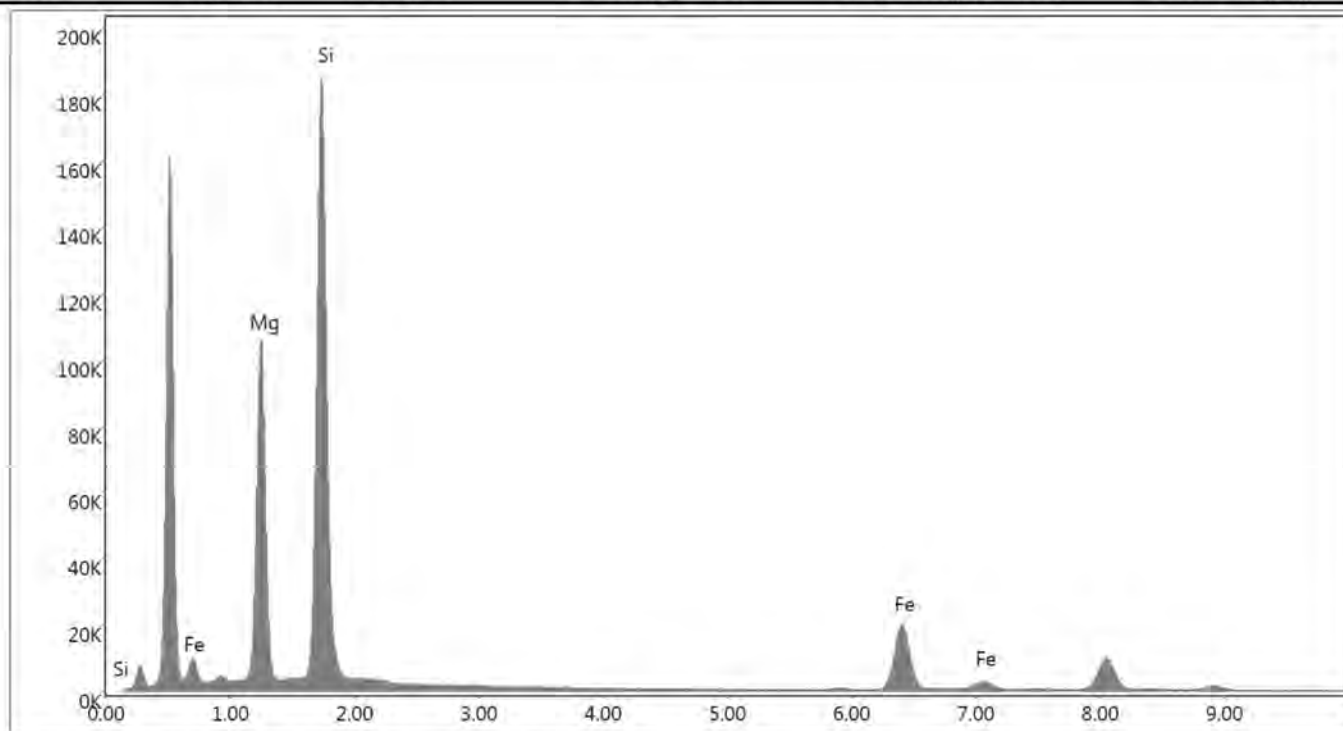
EDAX TEAM

Analysis

Author: lab
Creation: 12/17/2018 11:24:08 AM
Sample Name: Talc

M69757-007-009 Anthophyllite

kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μ s): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 948 Cnts 4.350 keV Det: Apollo XLT2 SUTW

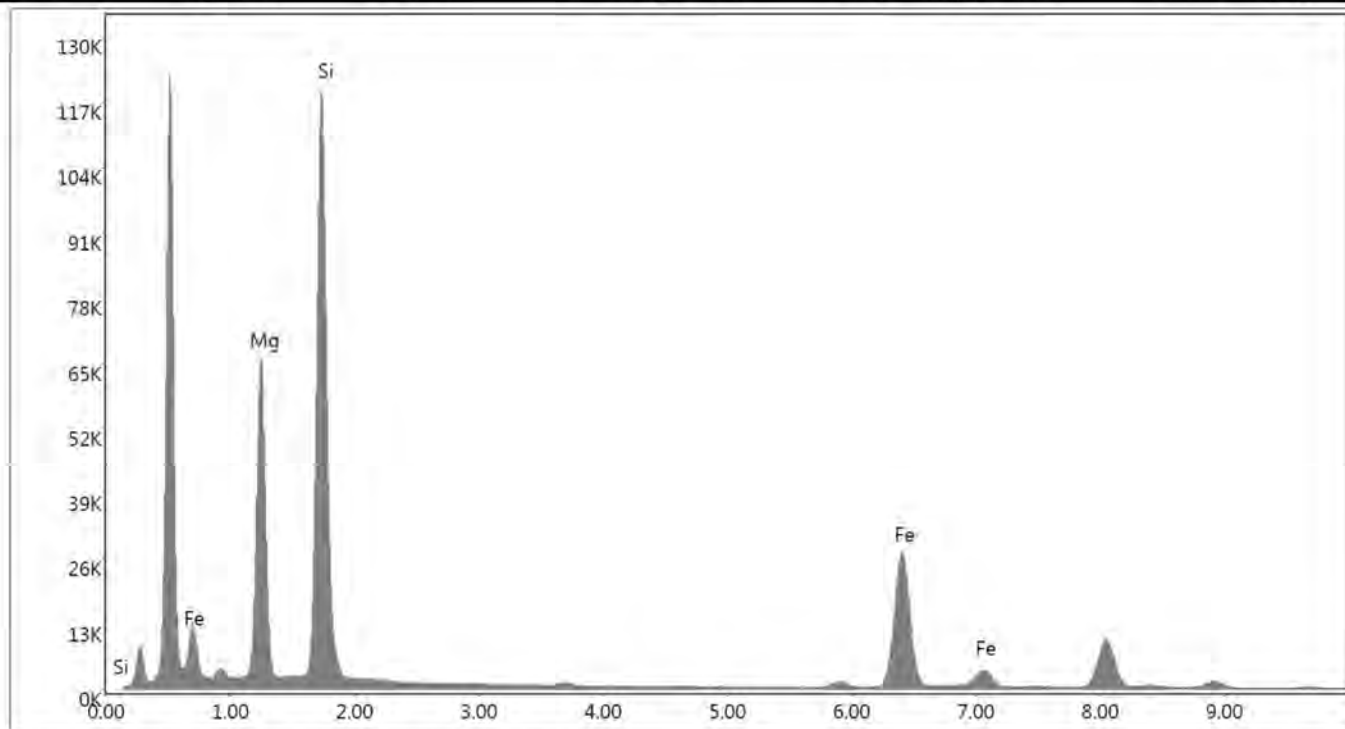
EDAX TEAM

Analysis

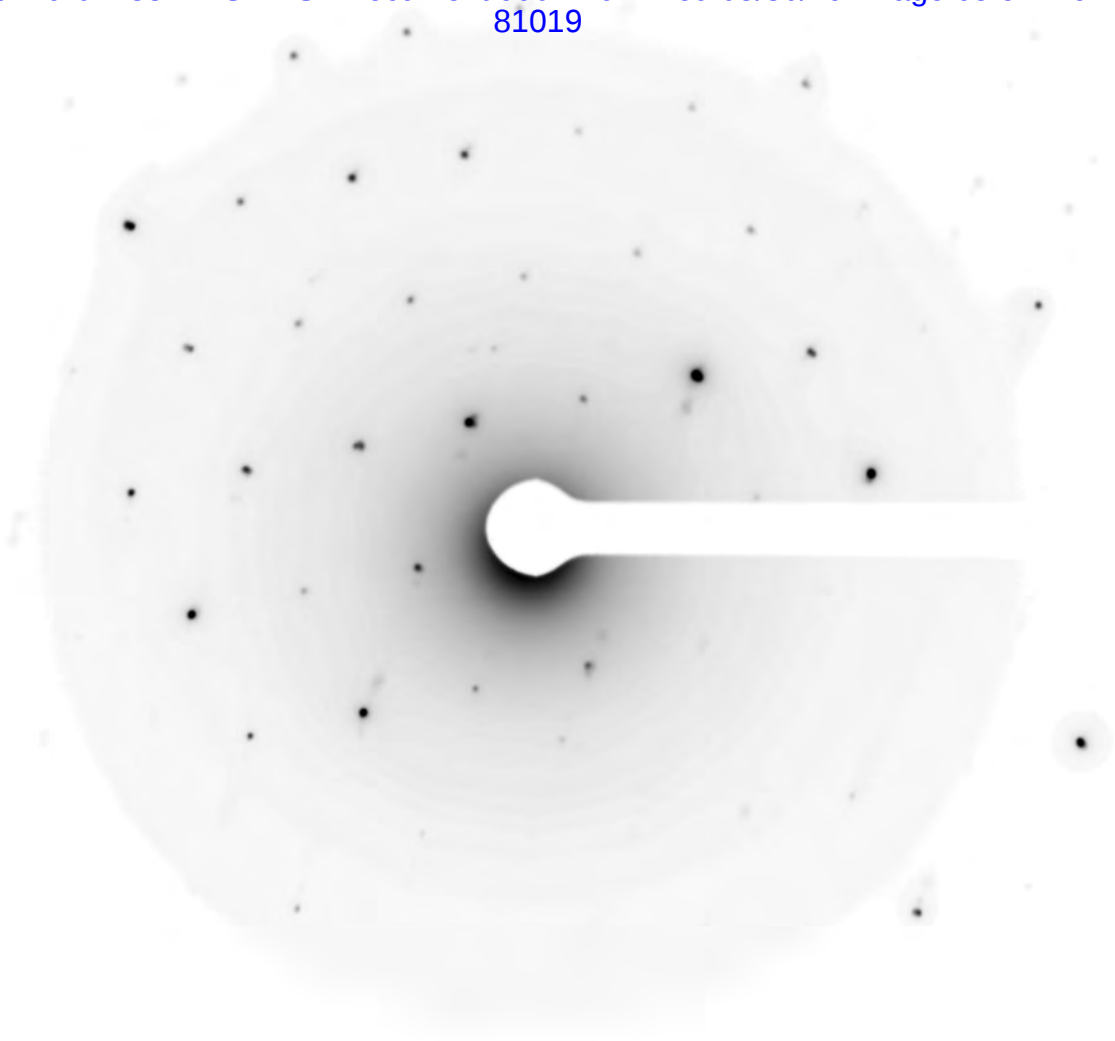
Author: lab
Creation: 12/17/2018 11:52:27 AM
Sample Name: Talc

M69757-007-009 Anthophyllite 2

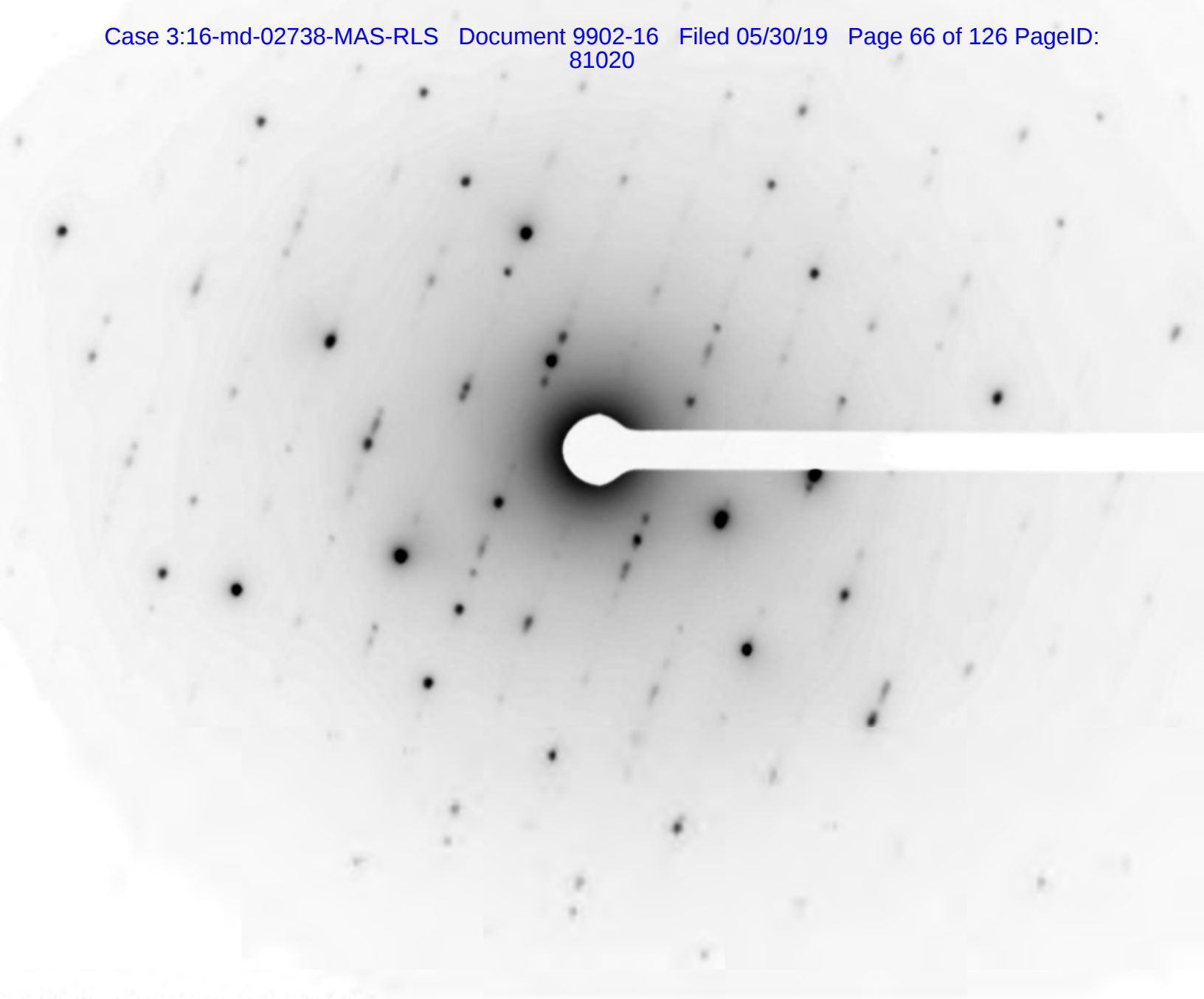
kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μs): 3.84 Resolution:(eV) 131.8



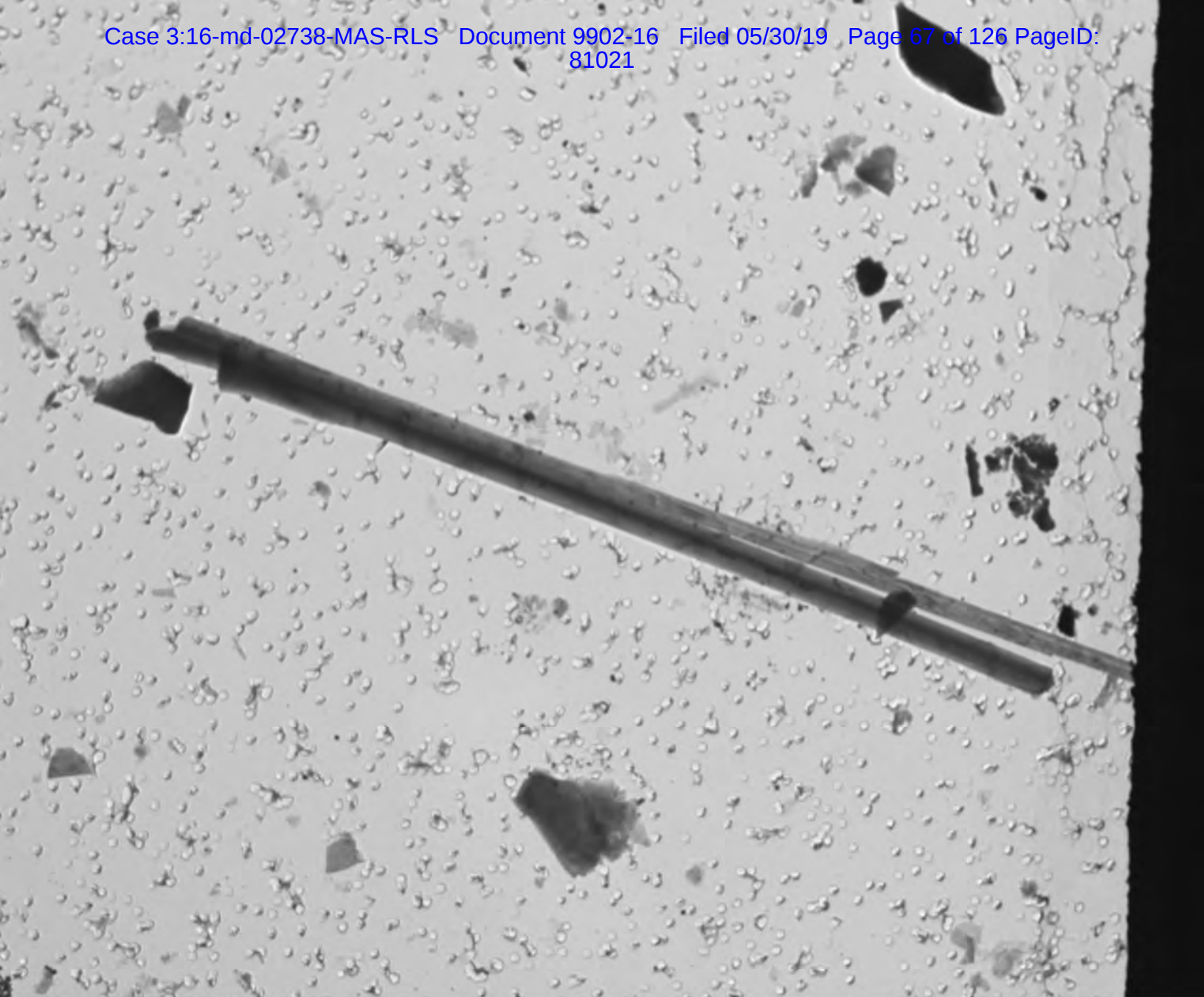
Lsec: 300.0 684 Cnts 4.350 keV Det: Apollo XLT2 SUTW



M69757-007-009 Anthophyllite Diffraction.tif
Diffraction @ 50cm
11:13 12/17/2018



M69757-007-009 Anthophyllite Diffraction 2.tif
Diffraction @ 50cm
12:10 12/17/2018



M69757-007-009 Anthophyllite Image.tif
(49.4um x 2.1um)
12:12 12/17/2018

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-007		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G.O. Area
Date of Analysis	12/15/2018-12/17/18		G. O. in microns =	105	105	105
Initial Weight(g)	0.04202			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
1	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc #1	E6-D7	F-Talc	9.3	1.4	6.6	Fibrous talc observed Trace throughout	

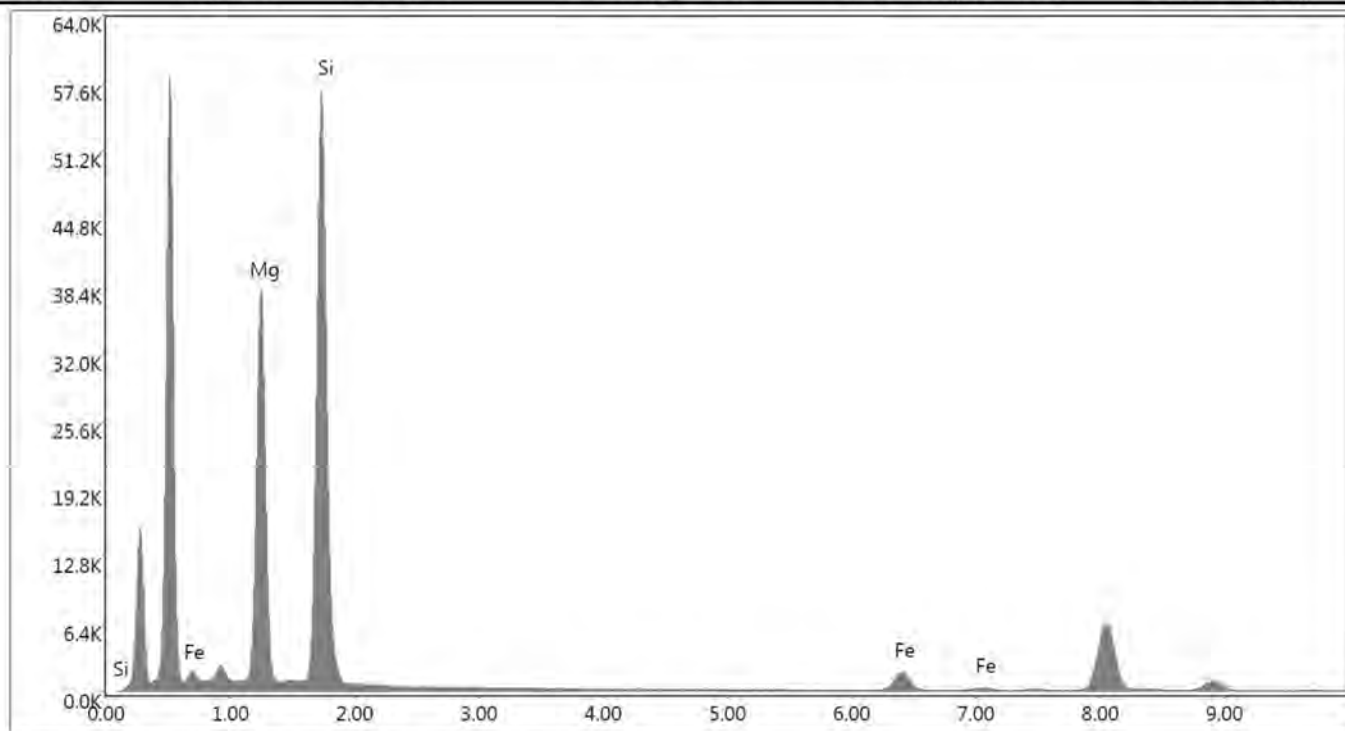
EDAX TEAM

Analysis

Author: lab
Creation: 12/16/2018 1:31:50 PM
Sample Name: Talc

M69757-007-F-Talc #1

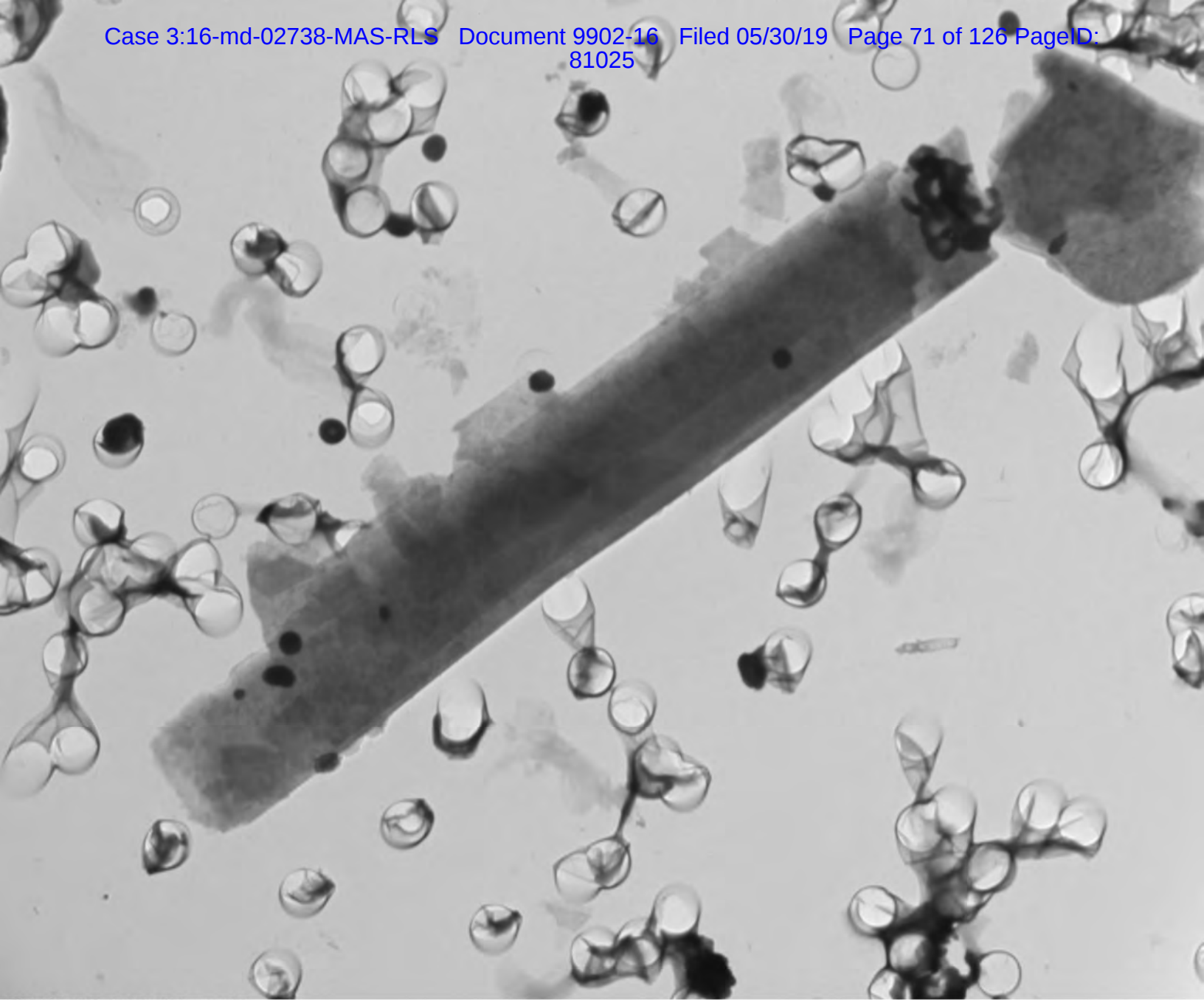
kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μs): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 242 Cnts 4.350 keV Det: Apollo XLT2 SUTW



M69757-007-F-Talc #1 Diffraction.tif
Diffraction @ 50cm
13:24 12/16/2018



M69757-007-F-Talc #1 Image.tif
(9.3um x 1.4um)
13:32 12/16/2018

Section 5

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69751 - 039ISO Analyst Paul Hess Date 12/13/2018
 ClientName Beasley, Allen, Crow, Methvin, Portis & Miles ClientSpl 20180320-01A
 Location _____
 Type_Mat Talc
 Gross Off-white powder % of Sample 100
 Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %
NO ASBESTOS OBSERVED

Chrysotile.....
 Amosite.....
 Crocidolite.....
 Tremolite/Actinolite.....
 Anthophyllite.....

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55

NON FIBROUS COMPONENTS

Opagues
 Talc
 Mineral grains

 X
 X
 X

Binder Description

Comments *** Moderate amount fibrous Talc observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69751 - 039BL **Analyst** Paul Hess **Date** 12/14/2018
ClientName Beasley, Allen, Crow, Methvin, Portis & Miles **ClientSpl** 20180320-01A
Location _____
Type_Mat Talc
Gross White debis on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %
NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

NON FIBROUS COMPONENTS

Opagues _____
Talc _____
Mineral grains _____

_____ **X** _____
 _____ **X** _____
 _____ **X** _____

Binder Description _____

Comments X = Materials detected.

The method detection limit is 1% unless otherwise stated.

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-039		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G. O. Area
Date of Analysis	12/14/2018-12/15/18		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04150			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
1	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	A7-11							
NSD	I2							
NSD	I3							
NSD	I4							
NSD	I5							
NSD	I6							
NSD	I7							
NSD	I8							
NSD	I9							
NSD	I10							
NSD	H1							
NSD	H2							
NSD	H3							
NSD	H4							
NSD	H5							
NSD	H6							
NSD	H7							
NSD	H8							
NSD	H9							
NSD	H10							
NSD	G1							
NSD	G2							
NSD	G3							
NSD	G4							
NSD	G5							
NSD	G6							
NSD	G7							
NSD	G8							
NSD	G9							
NSD	G10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-039		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G. O. Area
Date of Analysis	12/14/2018-12/15/18		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04150			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
1	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	B7-J1							
NSD	J2							
NSD	J3							
NSD	J4							
NSD	J5							
NSD	J6							
NSD	J7							
NSD	J8							
NSD	J9							
NSD	J10							
NSD	I1							
NSD	I2							
NSD	I3							
NSD	I4							
NSD	I5							
NSD	I6							
NSD	I7							
NSD	I8							
NSD	I9							
NSD	I10							
NSD	G1							
NSD	G2							
NSD	G3							
NSD	G4							
NSD	G5							
NSD	G6							
NSD	G7							
NSD	G8							
NSD	G9							
NSD	G10							
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							
NSD	F9							
NSD	F10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-039		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G. O. Area
Date of Analysis	12/14/2018-12/15/18		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04150			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
1	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
--------	--------------	-----------	------------------	--------	-------	-------	------	-----

	Sample Wt.	
Org. Sample Wt.	Post HL Separation	
0.04150	0.04150	g
Percent of Orig. Post Separation	100	(%)
Wt. Of Sample Analyzed	0.00022752	g
Filter size	201.1	mm²
Number of Structures Counted	0	Str.
Structures per Gram of Sample	<4395	Str./g

Detection Limit	4.40E+03	Str./g
Analytical Sensitivity	4.40E+03	Str./g

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-039		Grid Box #	8644	No. of Grids Counted	2
Analyst:	Jose Carrillo			Length	Width	G.O. Area
Date of Analysis	12/14/2018-12/15/18		G. O. in microns =	105	105	105
Initial Weight(g)	0.04150			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
1	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc #1	B7-G10	Fibrous Talc	17.2	3.2	5.4	Fibrous talc observed Trace throughout	

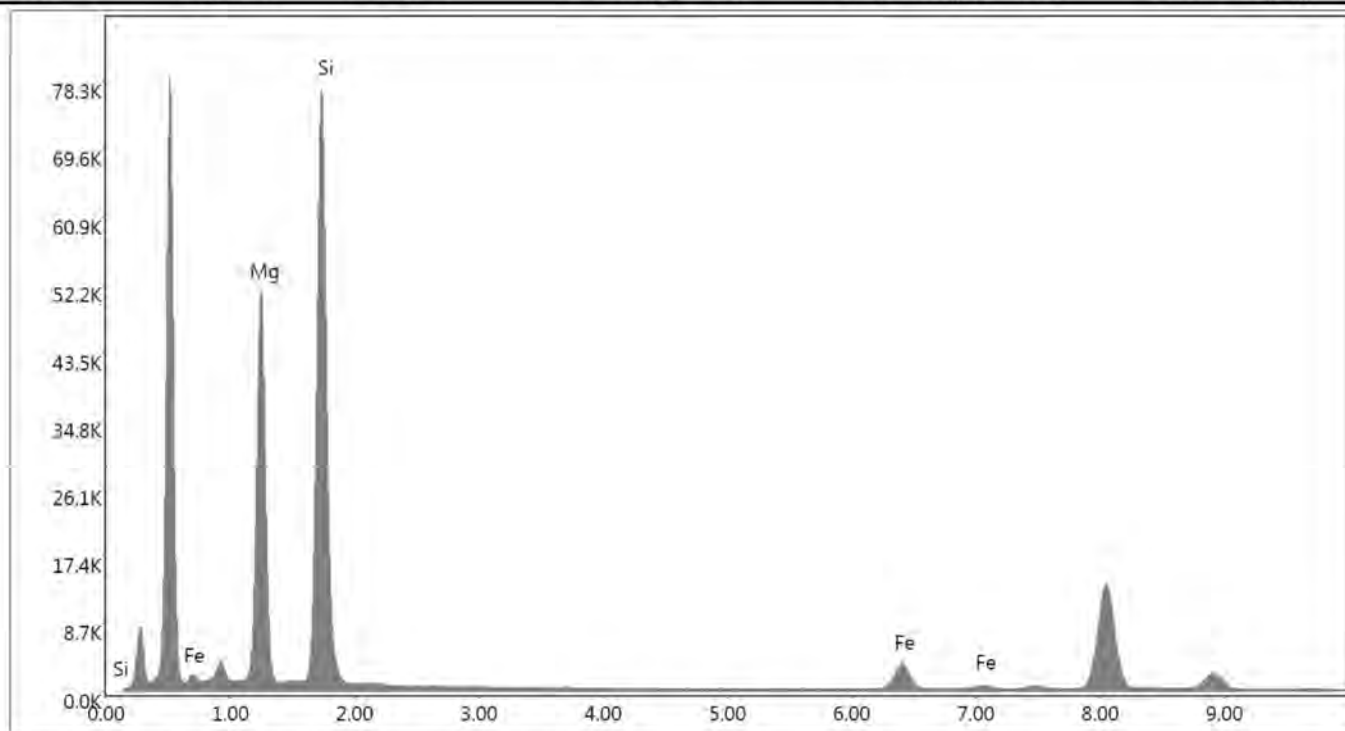
EDAX TEAM

Analysis

Author: lab
Creation: 12/15/2018 2:05:45 PM
Sample Name: Talc

M69751-039-F-Talc #1

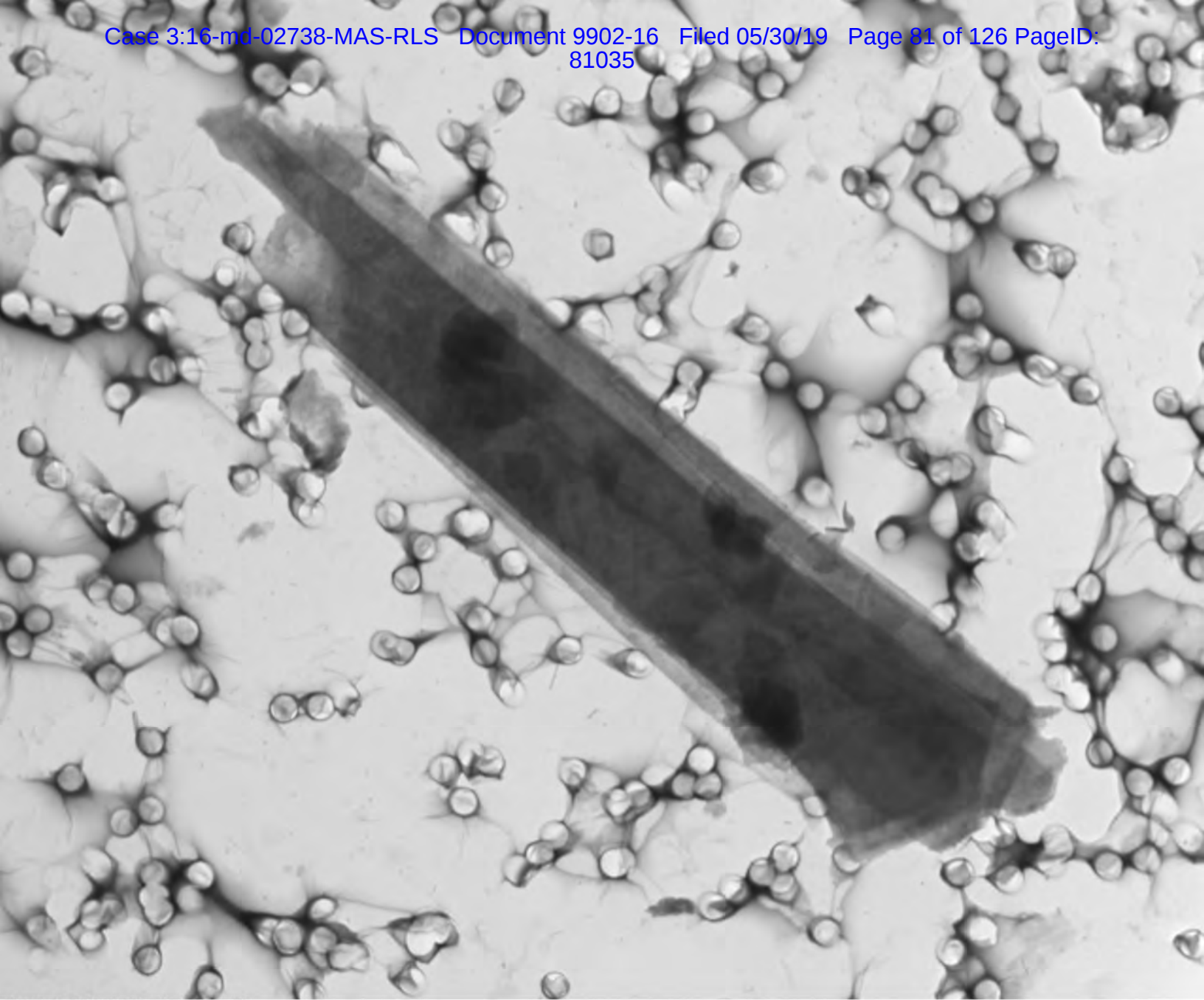
kV: 100 Mag: 10000 Takeoff: 1 Live Time(s): 300 Amp Time(μ s): 3.84 Resolution:(eV) 131.8



Lsec: 300.0 498 Cnts 3.600 keV Det: Apollo XLT2 SUTW



M69751-039-F-Talc #1 Diffraction.tif
Diffraction @ 50cm
13:57 12/15/2018



M69751-039-F-Talc #1 Image.tif
(17.2um x 3.2um)
14:05 12/15/2018

Section 6

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69751 - 040ISO **Analyst** Paul Hess **Date** 12/14/2018
ClientName Beasley, Allen, Crow, Methvin, Portis & Miles **ClientSpl** 20180320-13A
Location _____
Type_Mat Talc
Gross Off-white powder **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %
NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55 ***

NON FIBROUS COMPONENTS

Opagues X
Talc X
Mineral grains X

Binder Description _____

Comments *** Moderate amount fibrous Talc observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69751 - 040BL **Analyst** Paul Hess **Date** 12/15/2018
ClientName Beasley, Allen, Crow, Methvin, Portis & Miles **ClientSpl** 20180320-13A
Location _____
Type_Mat Talc
Gross White debris on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology	<u>straight</u>		
Pleochroism	<u>none</u>		
Refract Index	<u>1.633/1.616</u>		
Sign^	<u>positive</u>		
Extinction	<u>oblique</u>		
Birefringence	<u>medium</u>		
Melt	<u>no</u>		
Fiber Name	<u>Actinolite/Tremolite</u>		

ASBESTOS MINERALS

EST. VOL. %

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite..... <0.1
Anthophyllite.....

OTHER FIBROUS COMPONENTS

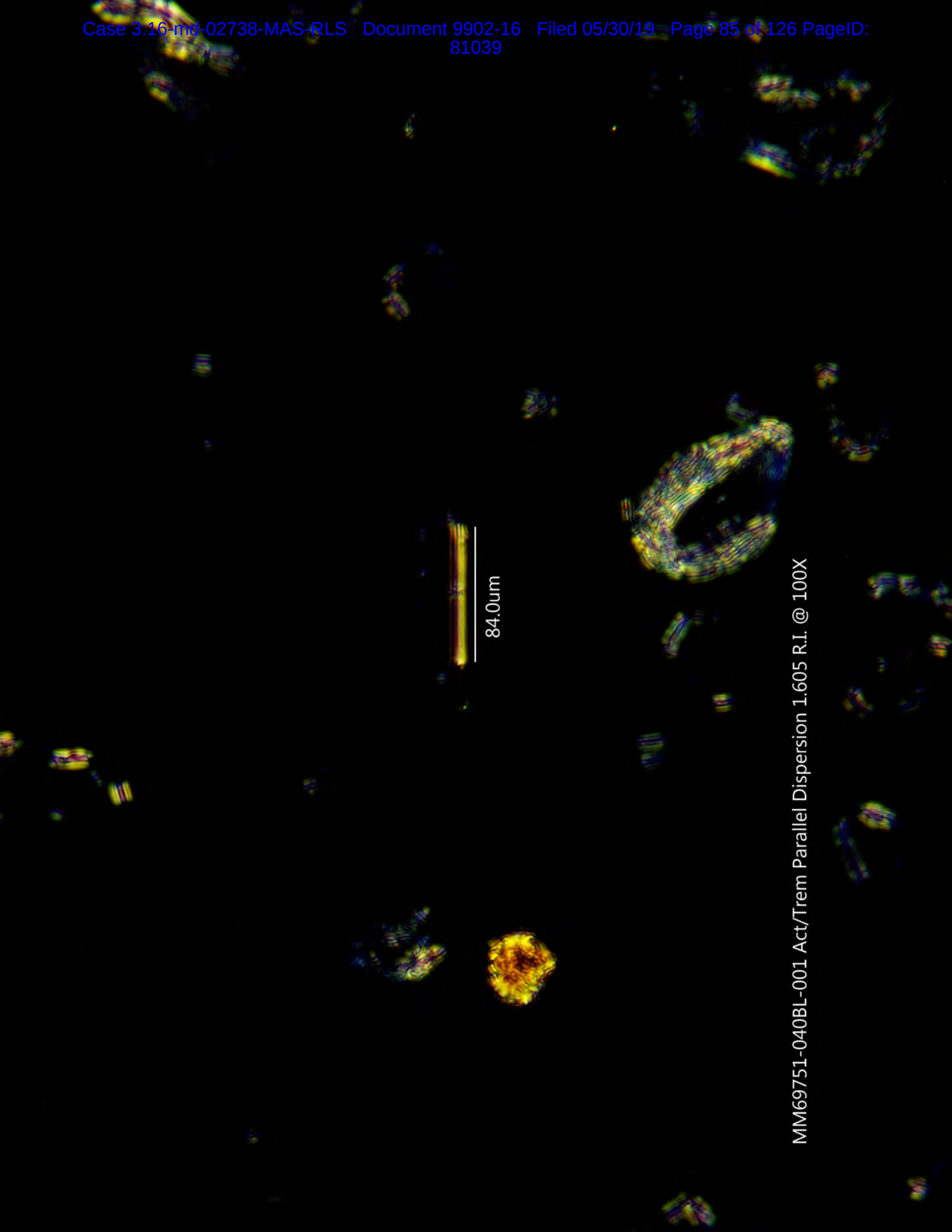
NON FIBROUS COMPONENTS

Opaques X
Talc X
Mineral grains X

Binder Description _____

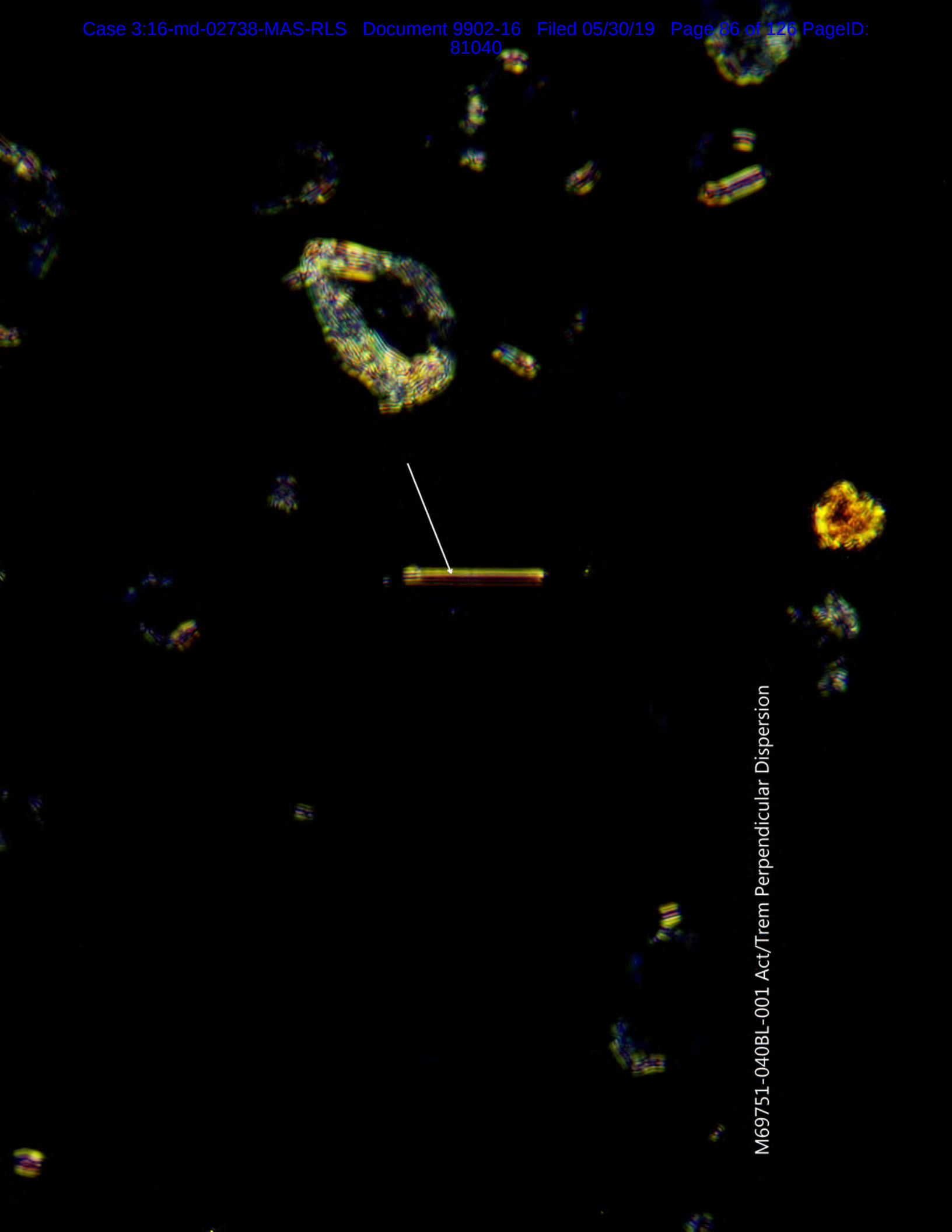
Comments Actinolite/Tremolite cleavage fragments/particles observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

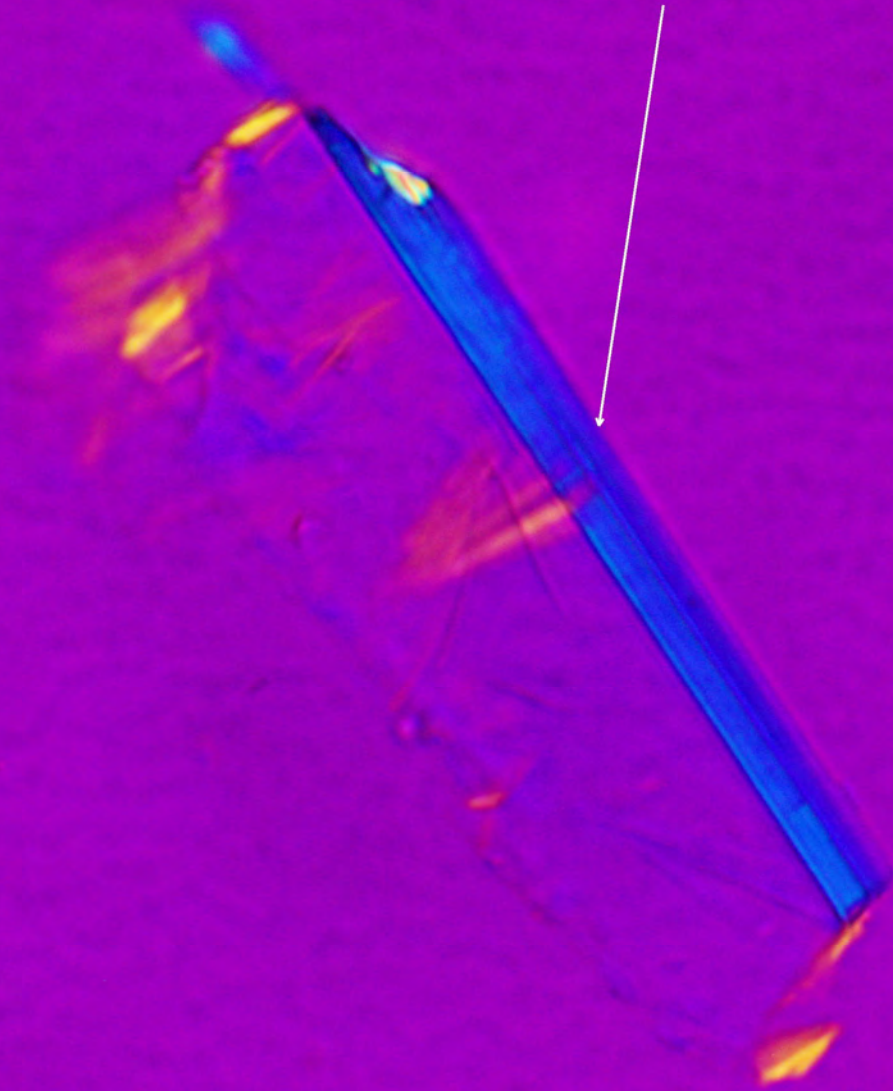


84.0μm

MM69751-040BL-001 Act/Trem Parallel Dispersion 1.605 R.I. @ 100X



M69751-040BL-001 Act/Trem Perpendicular Dispersion



M69751-040BL-001 Act/Trem Elongation @ 400X



M69751-040BL-001 Act/Trem Crossed Polars

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-040		Grid Box #	8645	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	12/17/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04056			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	18%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm ²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	A5-A1							
NSD	A2							
NSD	A3							
NSD	A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							
NSD	A10							
NSD	B1							
NSD	B2							
NSD	B3							
1	B4	Bundle	Anthophyllite	7.4	0.62	11.9	X	X
2	B5	Bundle	Anthophyllite	14.9	0.74	20.1	X	X
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D9							
NSD	D10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	F1							
NSD	F2							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-040		Grid Box #	8645	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	12/17/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04056			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	18%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	A4-A3							
NSD	A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							
NSD	A10							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
3	B10	Bundle	Anthophyllite	6.72	0.62	10.8	X	X
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							
NSD	F9							
NSD	F10							
NSD	G4							
NSD	G5							
NSD	G6							
NSD	G7							
NSD	G8							
NSD	G9							
NSD	G10							
NSD	H5							
NSD	H6							
NSD	H7							
NSD	H8							

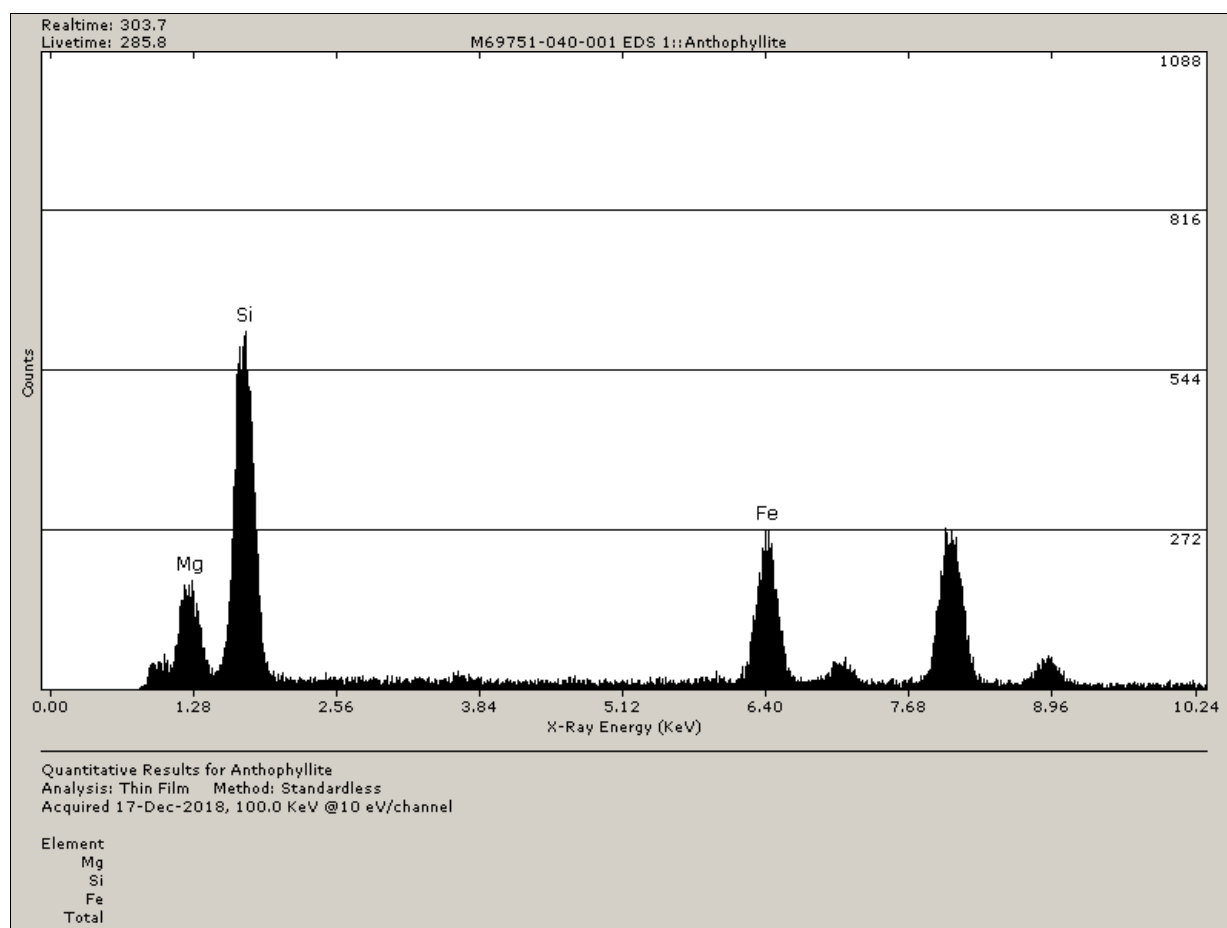
TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69751-040		Grid Box #	8645	No. of Grids Counted	2
Analyst:	Jayme Callan			Length	Width	G. O. Area
Date of Analysis	12/17/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04056			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	18%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

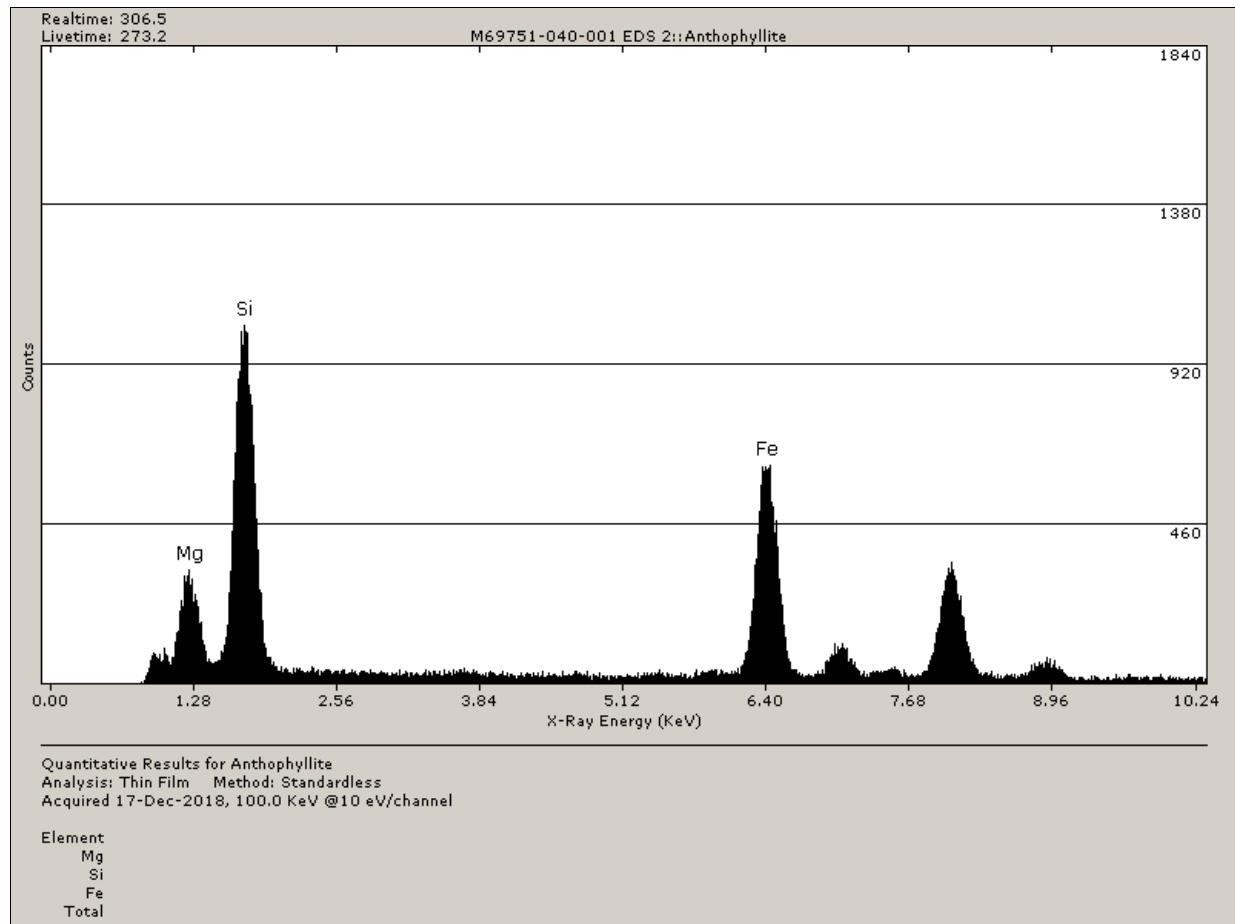
Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
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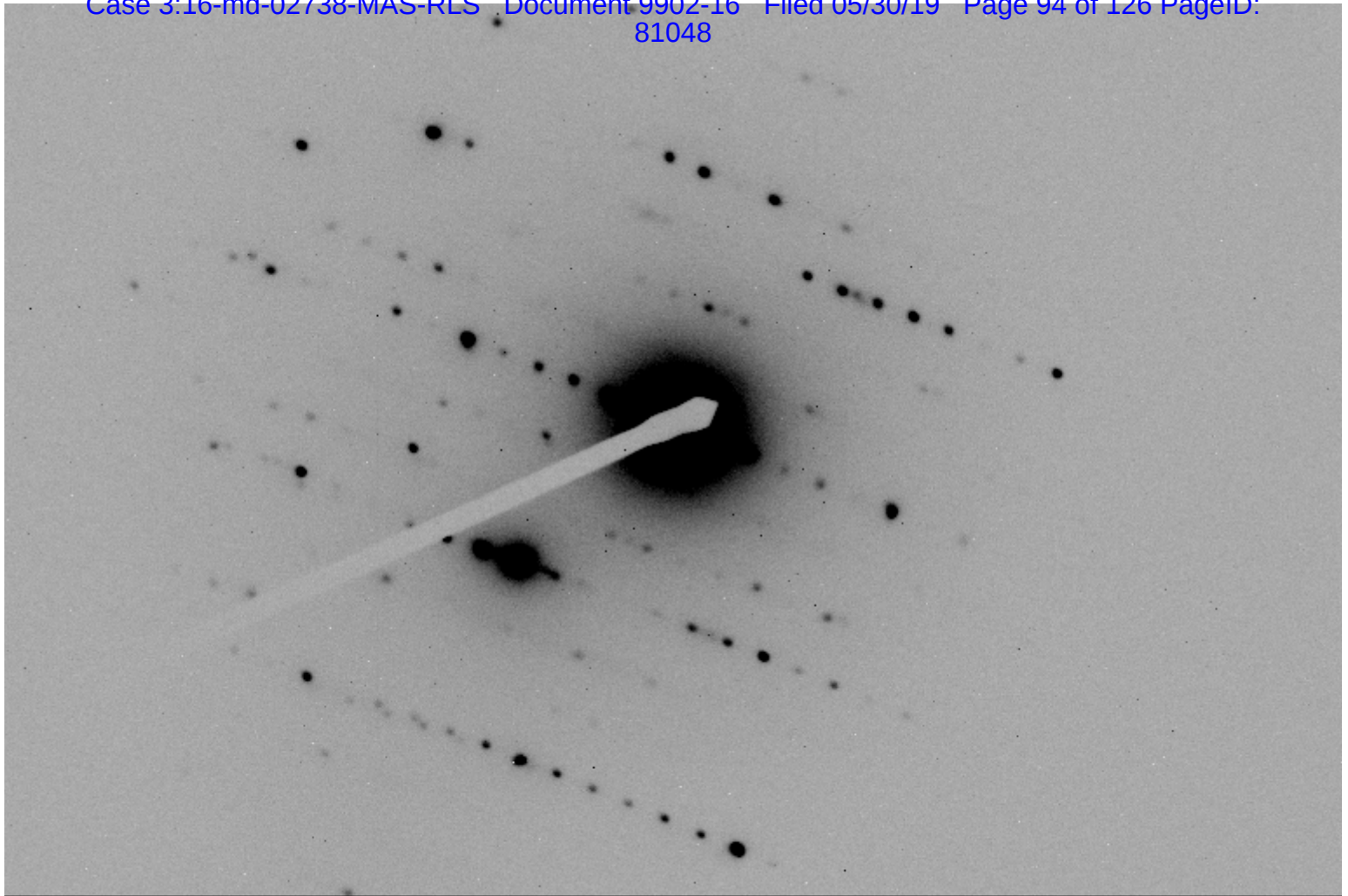
Org. Sample Wt.	Sample Wt. Post HL Separation
0.04056	0.04056 g
Percent of Orig. Post Separation	100 (%)

Wt. Of Sample Analyzed	0.00022236 g
Filter size	201.1 mm ²
Number of Structures Counted	3 Str.
Structures per Gram of Sample	1.35E+04 Str./g

Detection Limit	4.50E+03 Str./g
Analytical Sensitivity	4.50E+03 Str./g



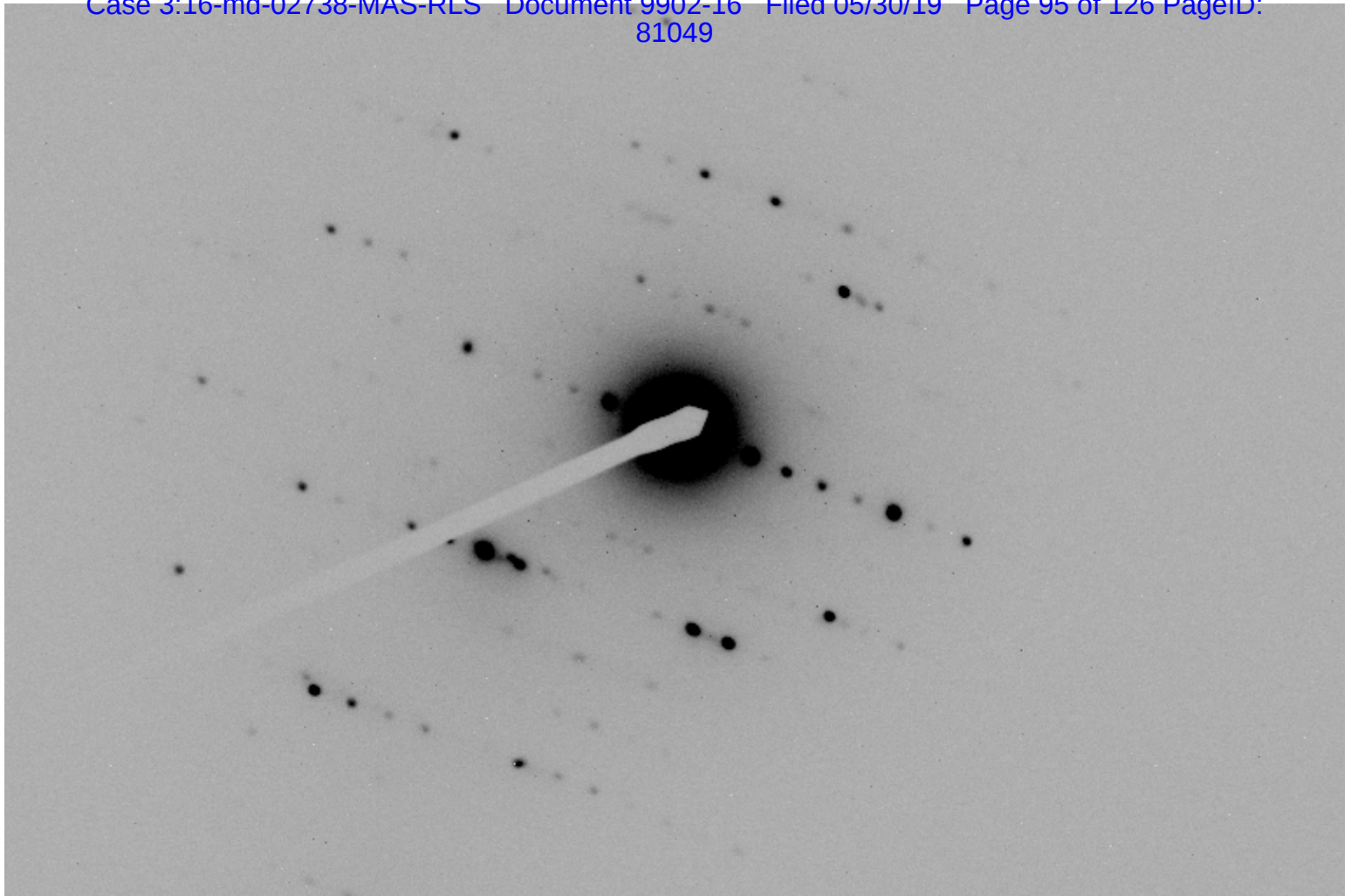




311056

M69751-040-001 Anthophyllite Diffraction - 1 @ 50cm

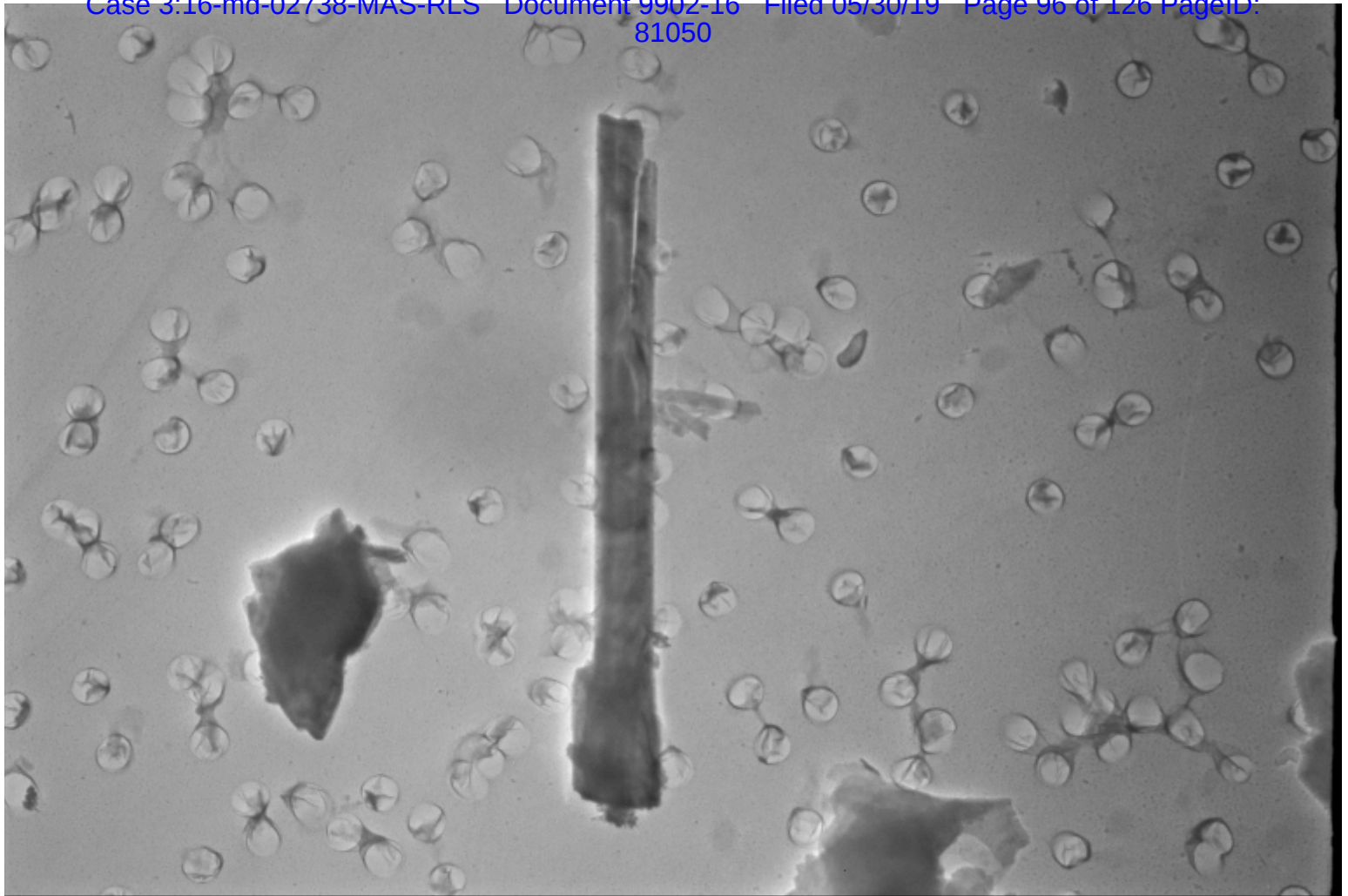
12/17/2018



311057

M69751-040-001 Anthophyllite Diffraction - 2 @ 50cm

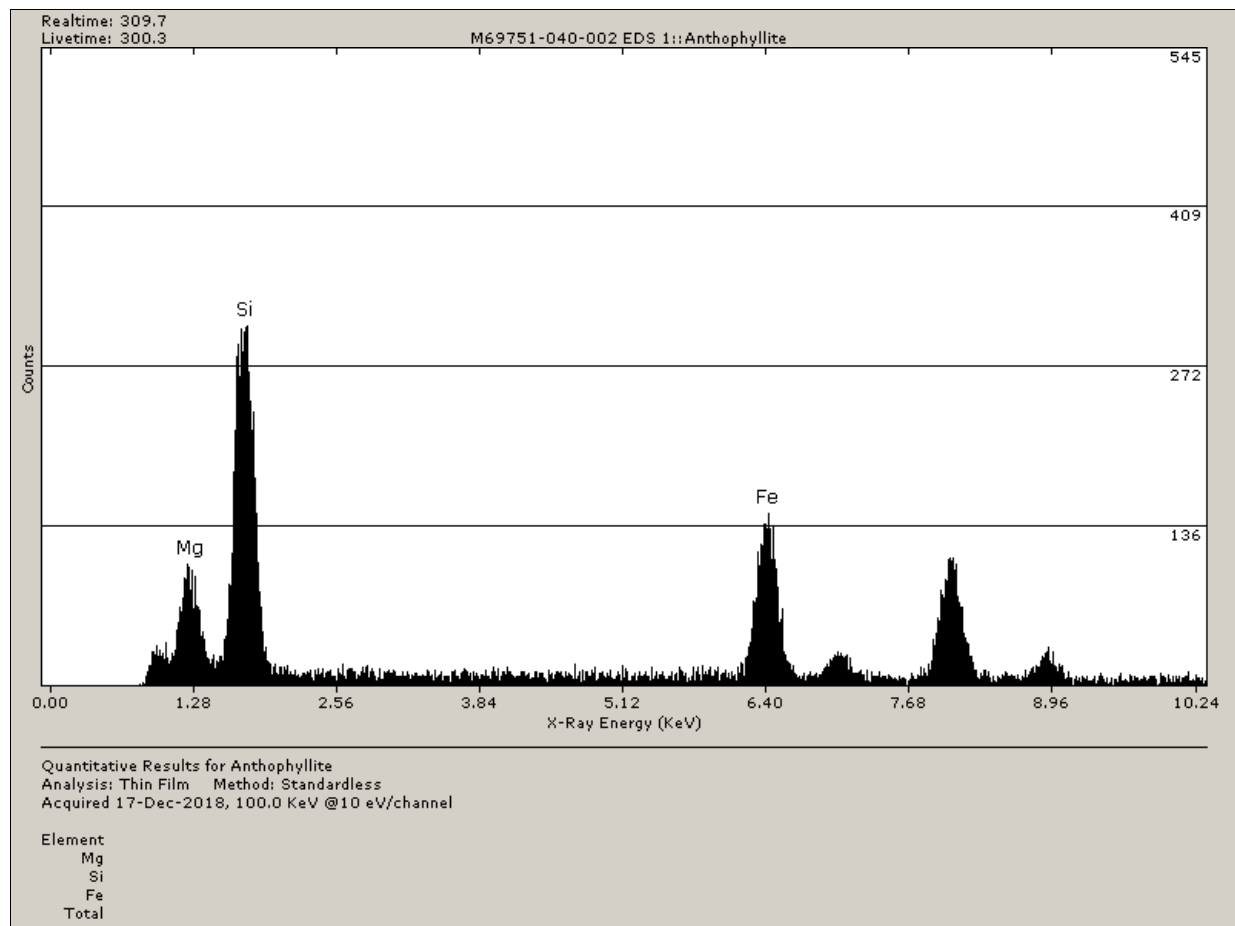
12/17/2018

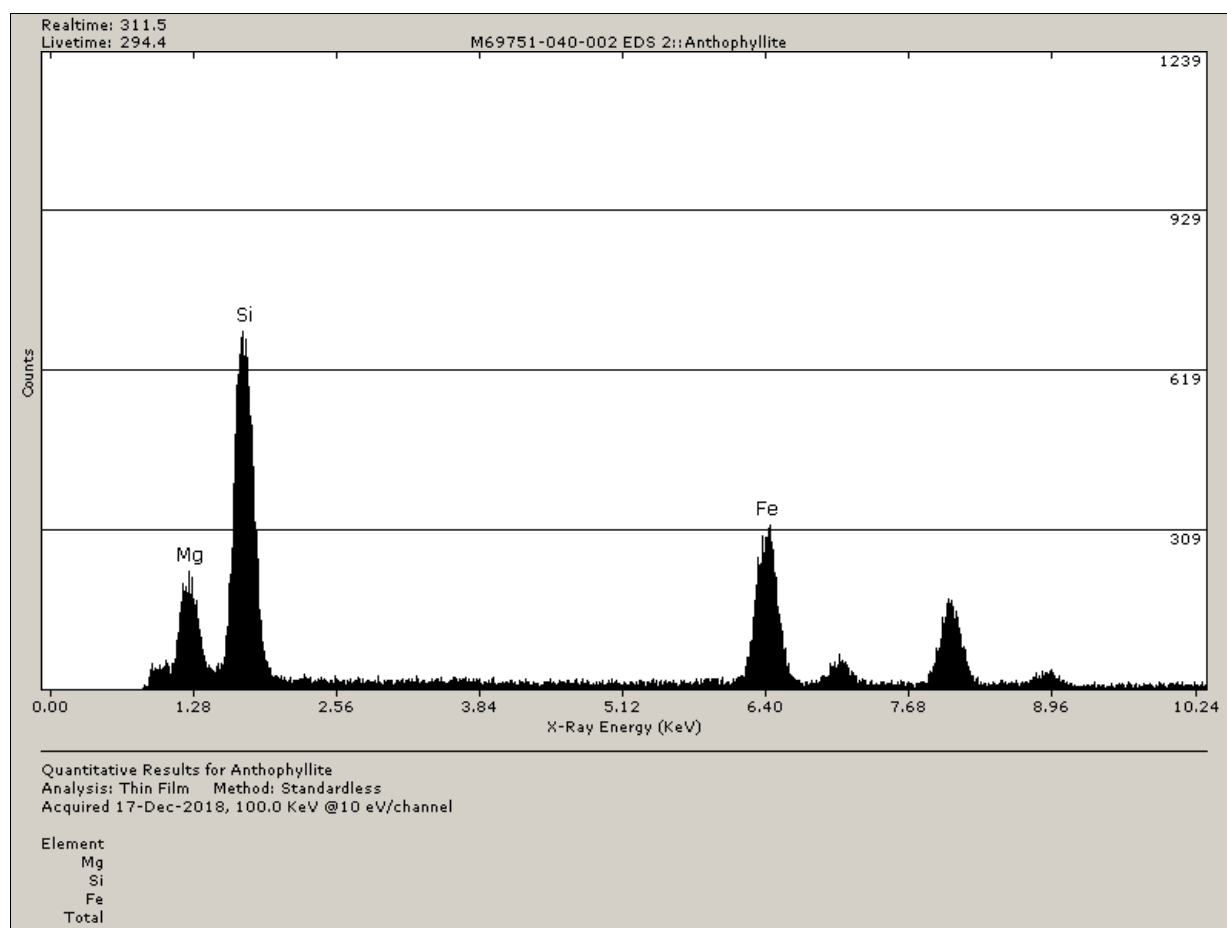


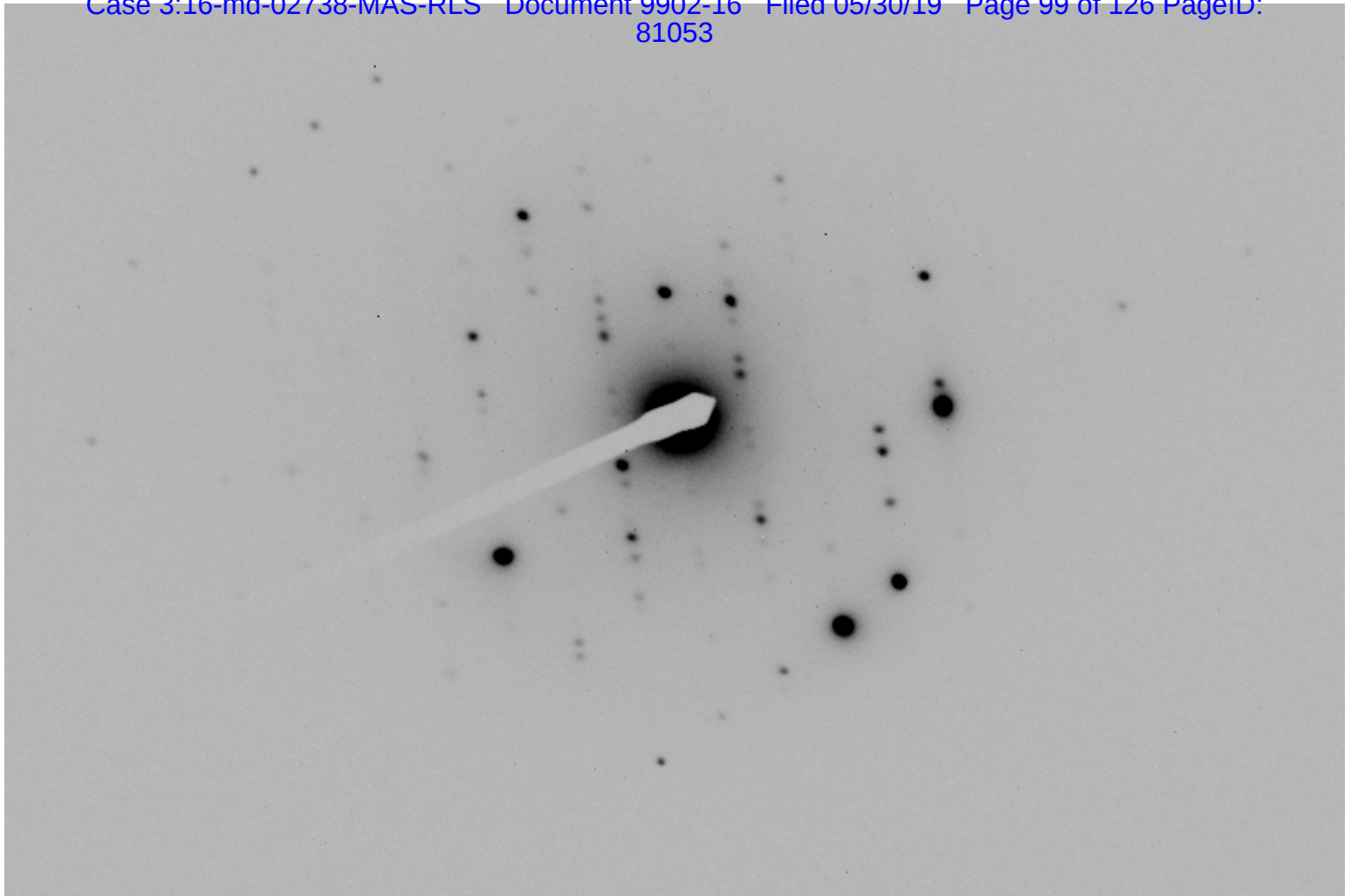
311058

M69751-040-001 Anthophyllite (7.40 μm \times 0.62 μm)

12/17/2018



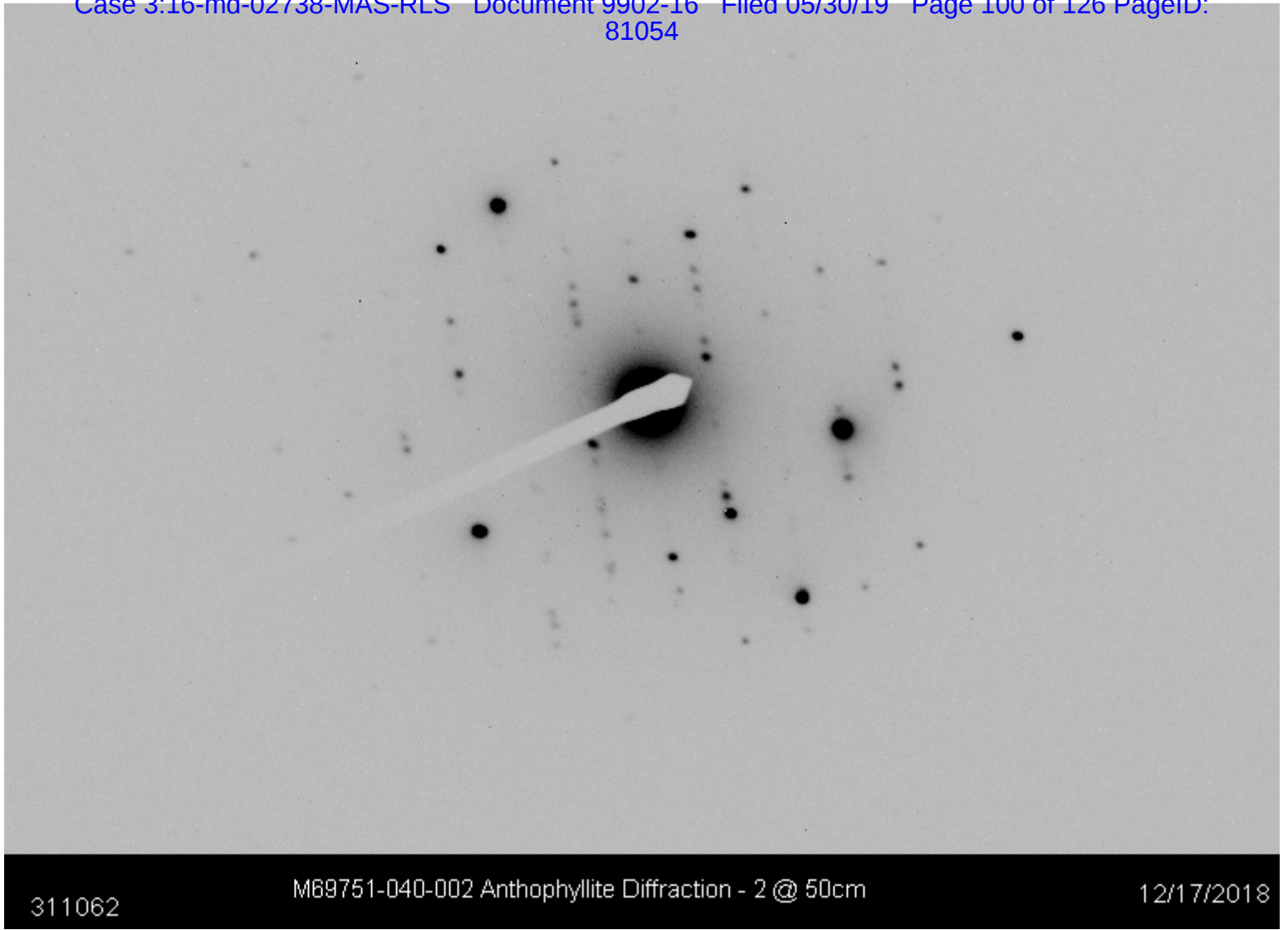


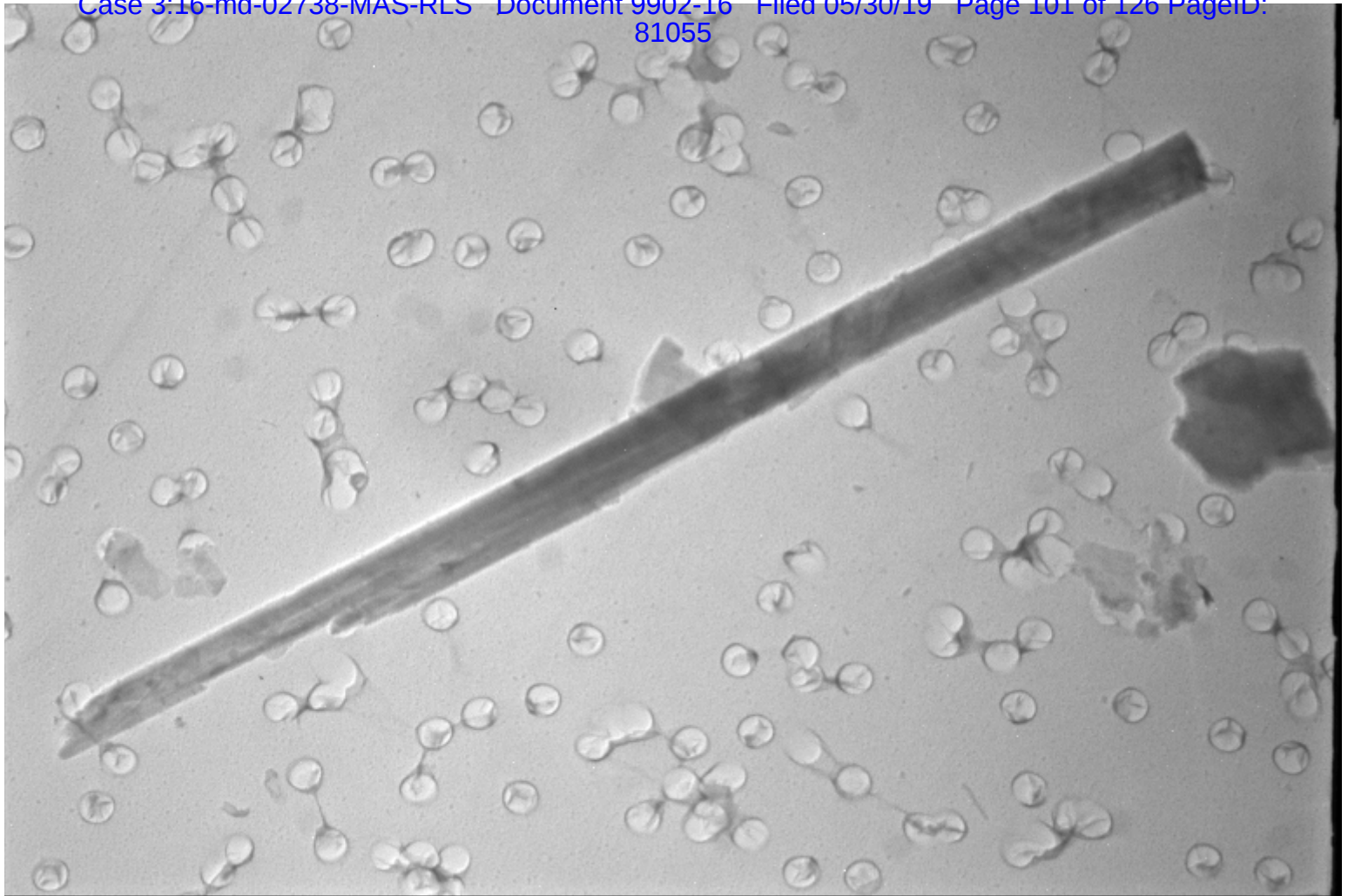


311061

M69751-040-002 Anthophyllite Diffraction - 1 @ 50cm

12/17/2018

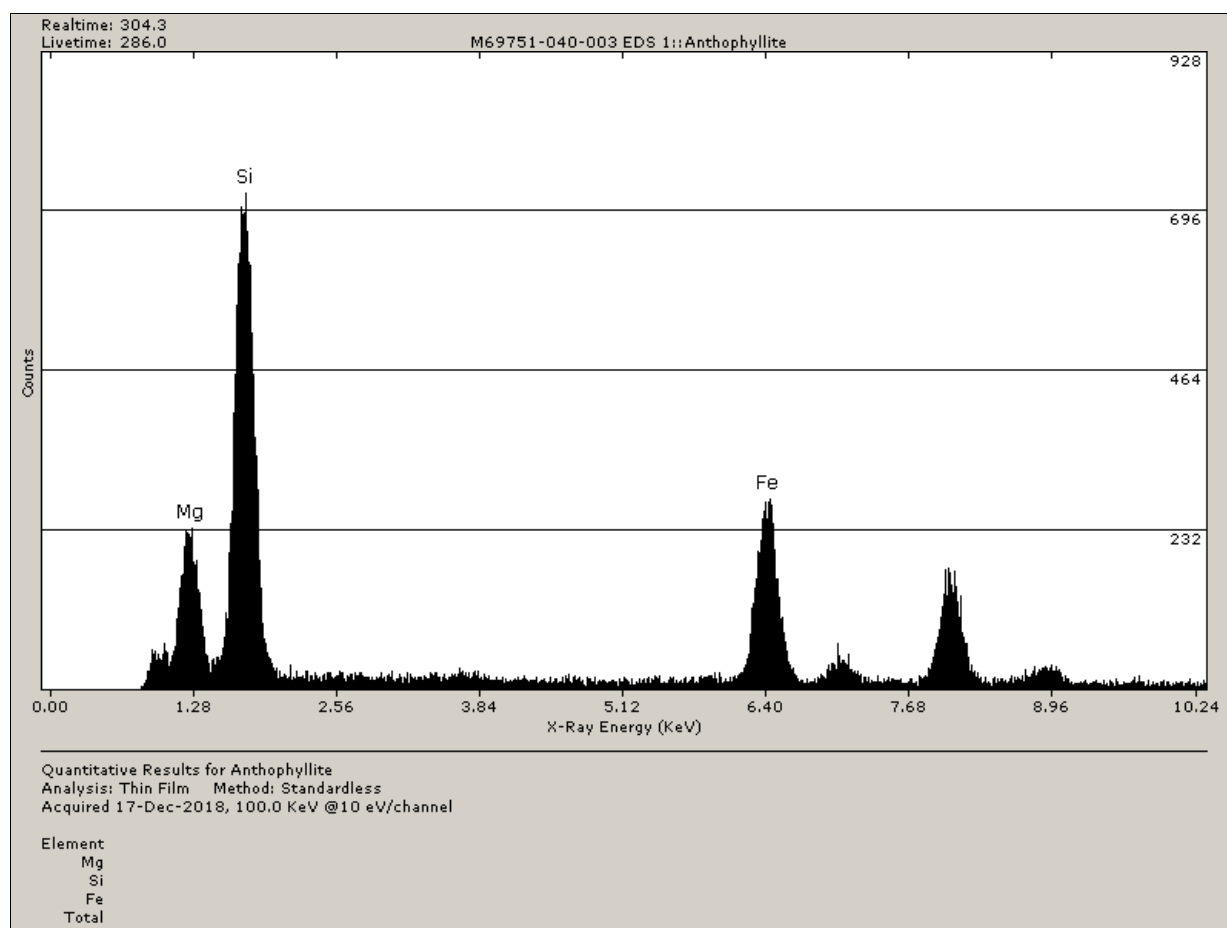


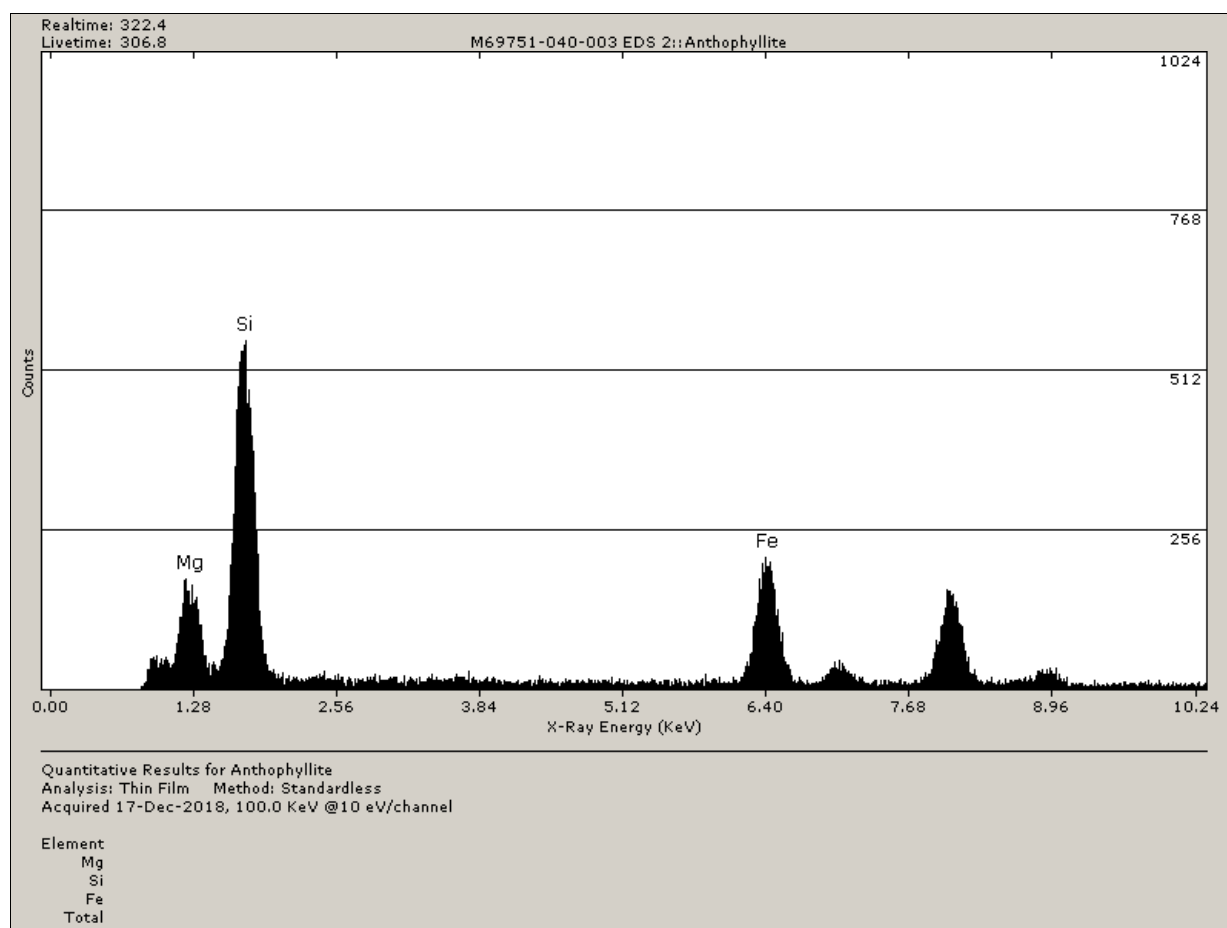


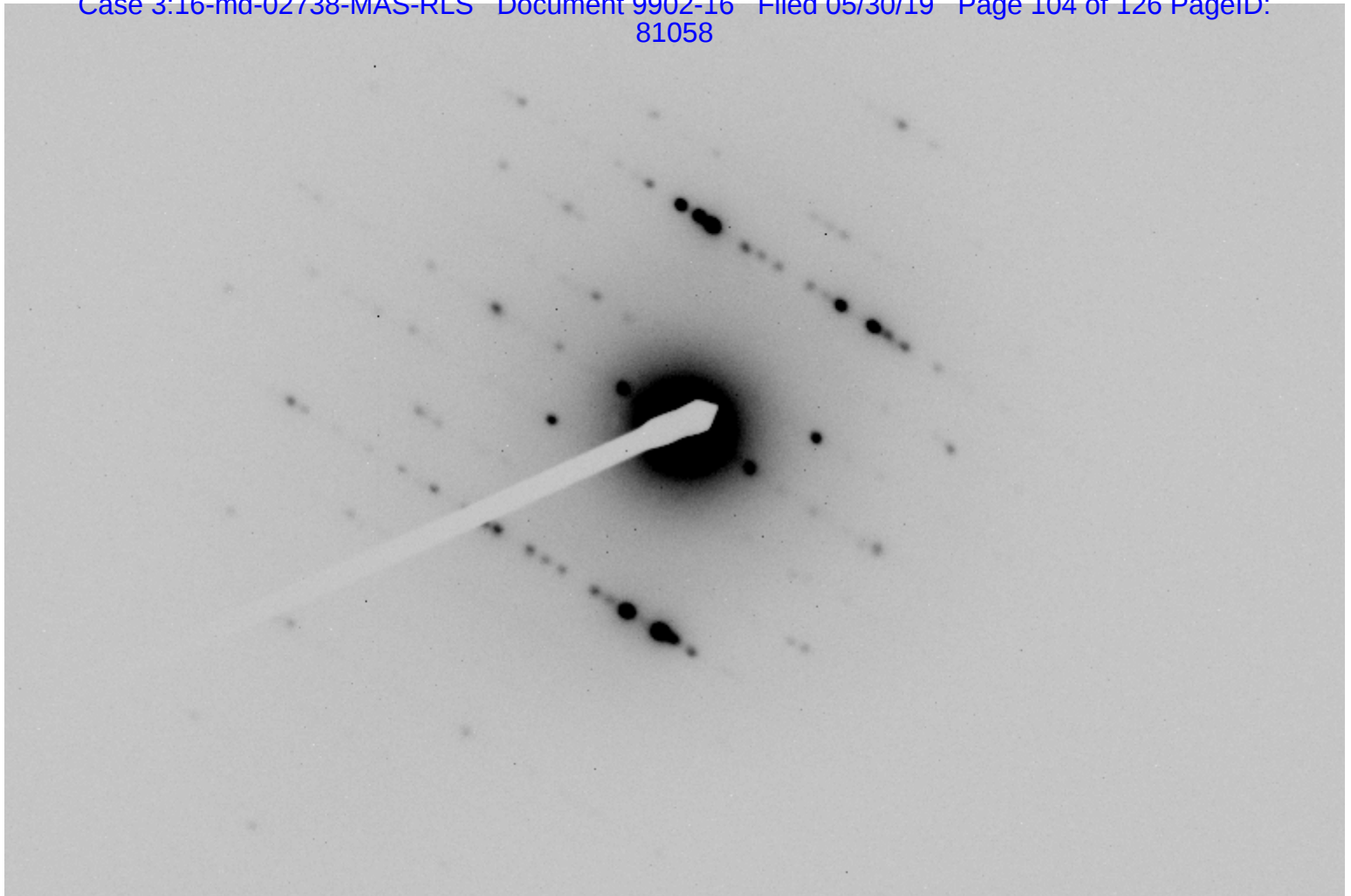
311067

M69751-040-002 Anthophyllite (14.90 um x 0.74 um)

12/17/2018



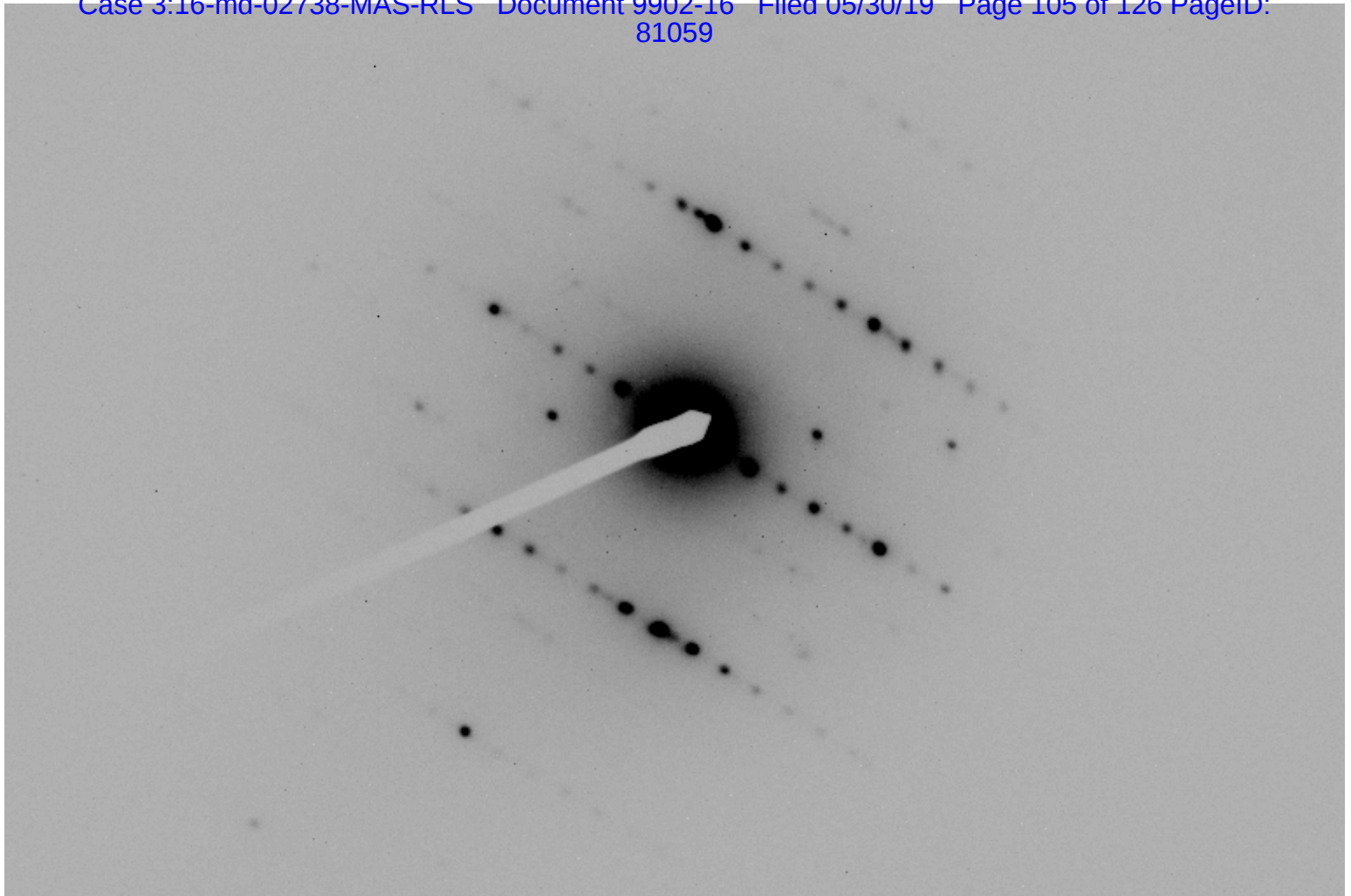




311071

M69751-040-003 Anthophyllite Diffraction - 1 @ 50cm

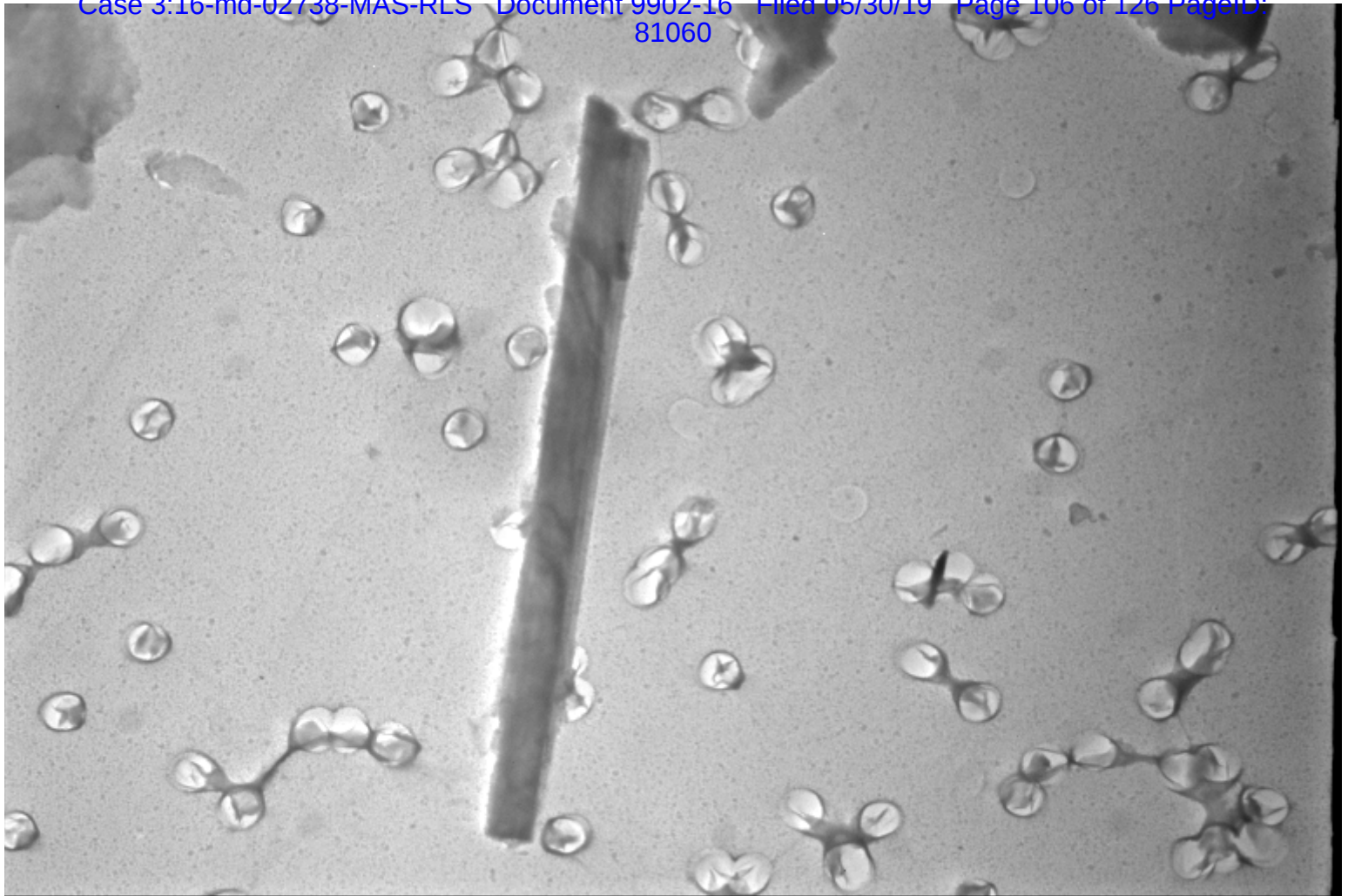
12/17/2018



311073

M69751-040-003 Anthophyllite Diffraction - 2 @ 50cm

12/17/2018



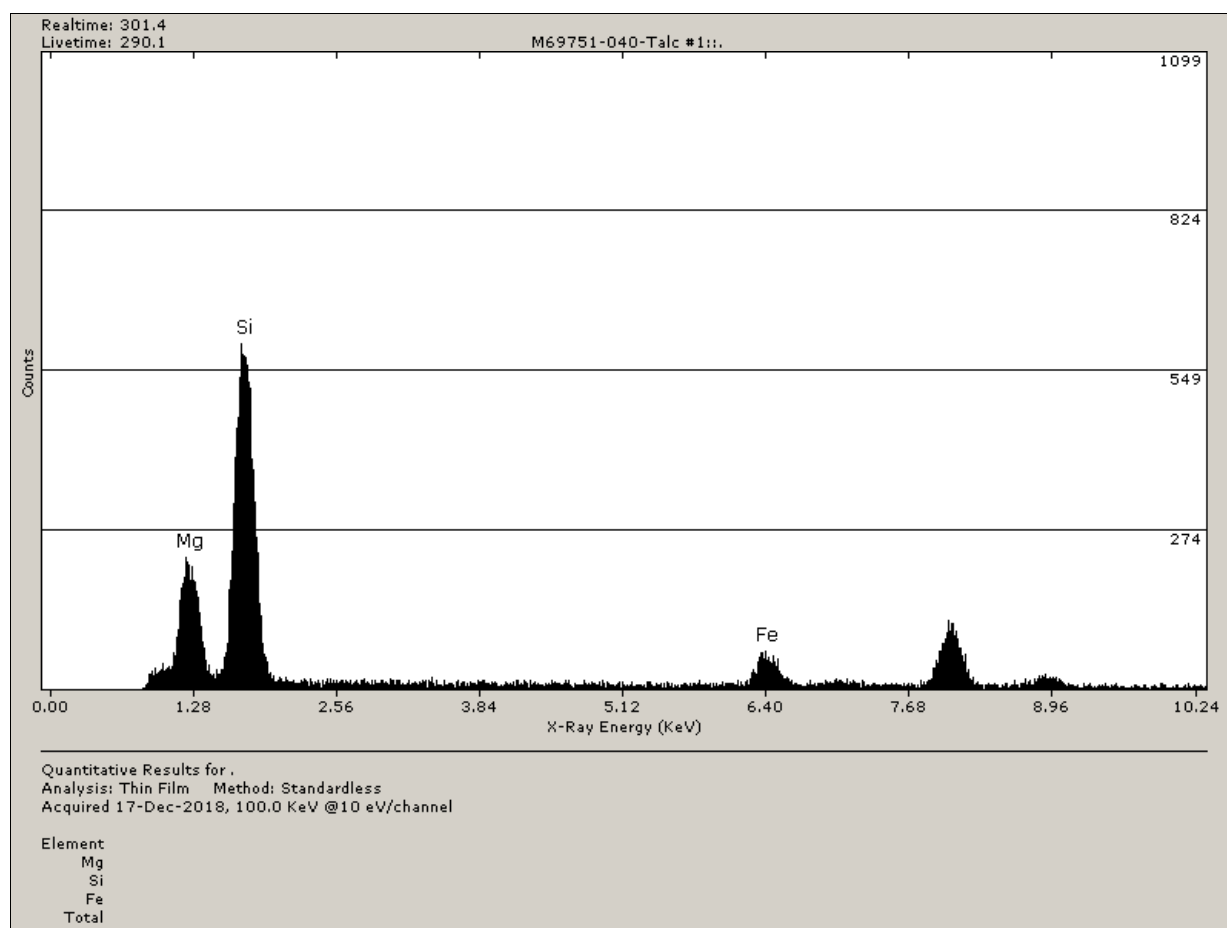
311075

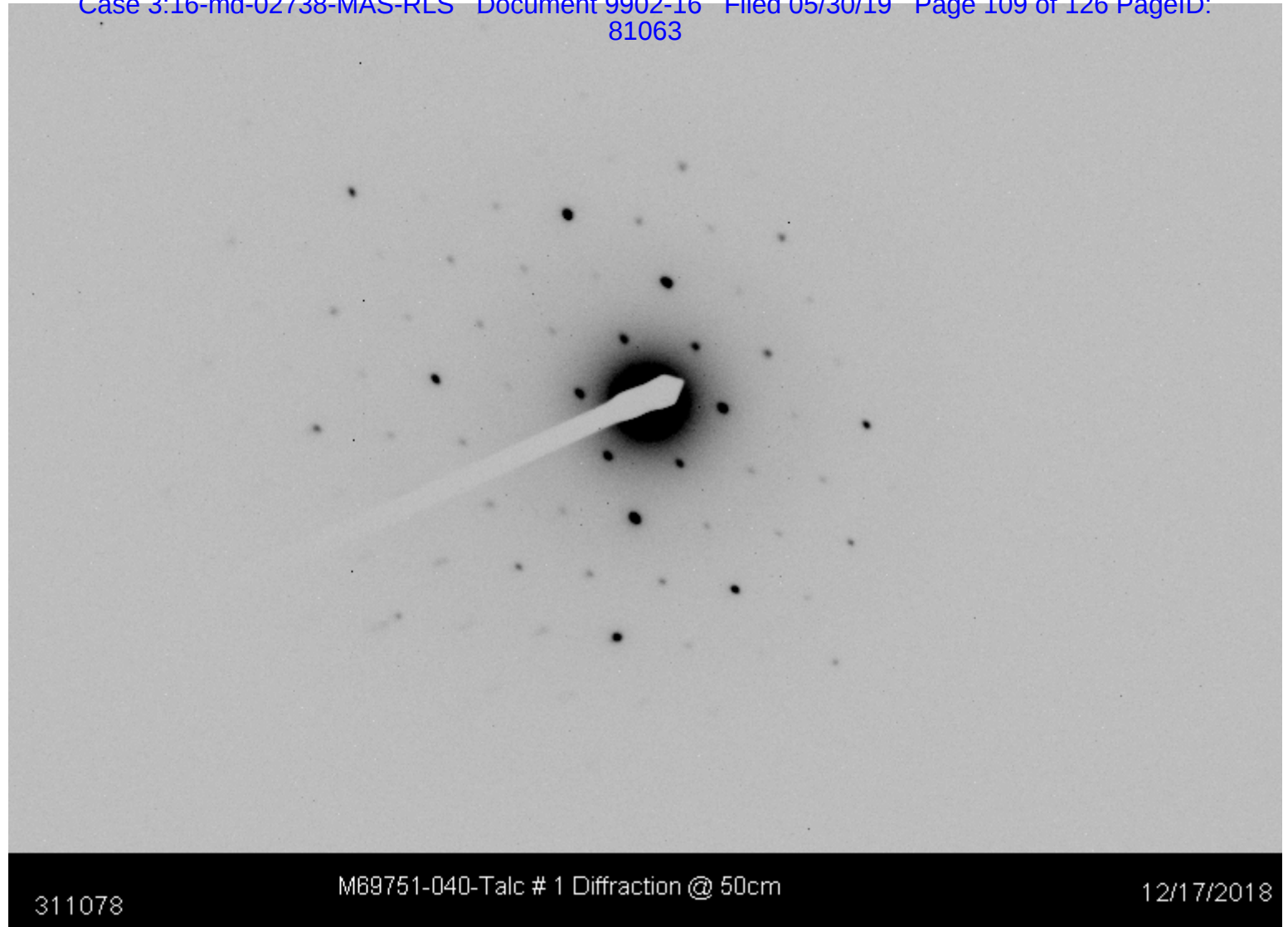
M69751-040-003 Anthophyllite (6.72 μm \times 0.62 μm)

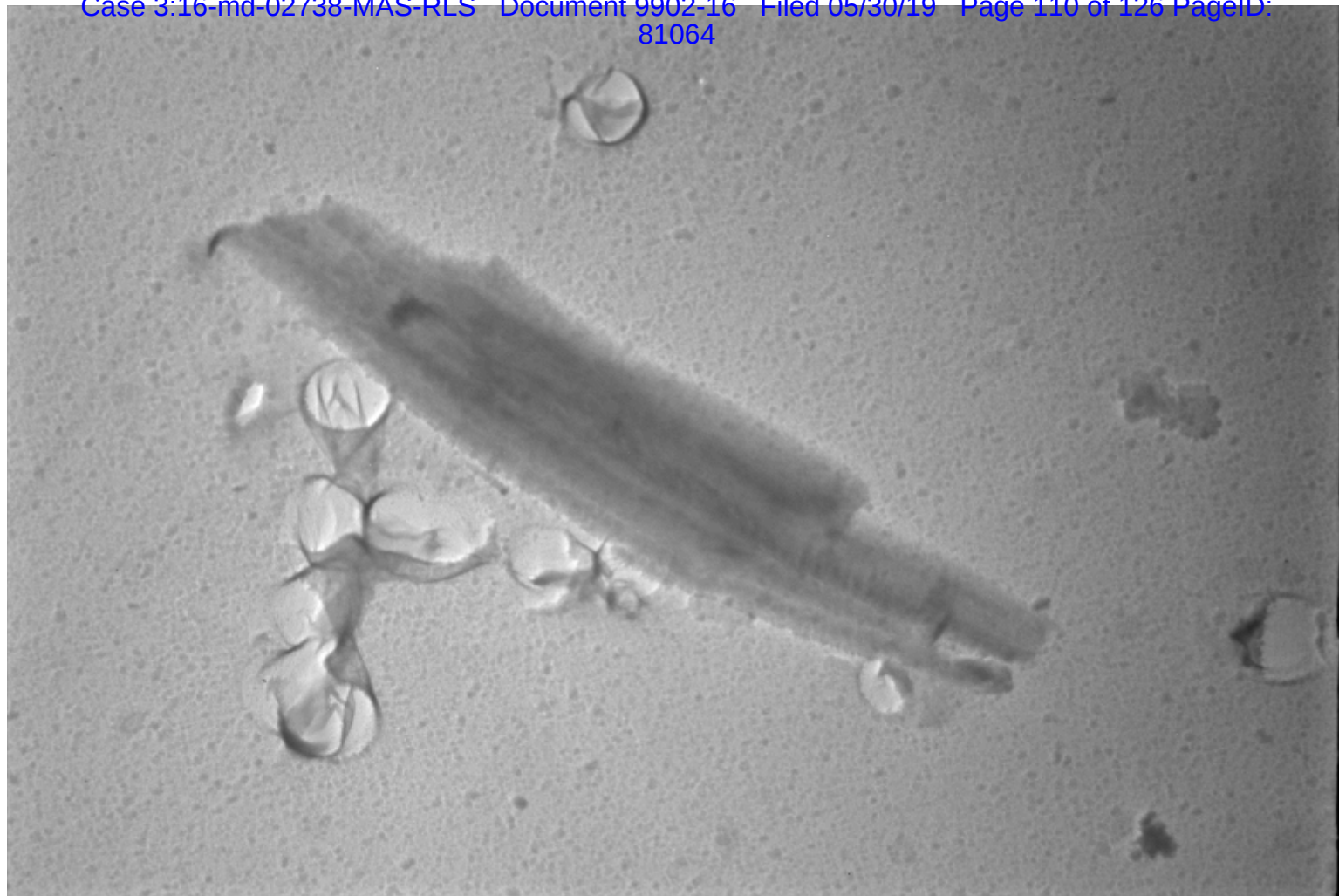
12/17/2018

TEM Bulk Talc Structure Count Sheet							
Project/ Sample No.	M69751-040		Grid Box #	8645	No. of Grids Counted	2	
Analyst:	Jayme Callan			Length	Width	G.O. Area	
Date of Analysis	12/17/2018		G. O. in microns =	105	105	105	
Initial Weight(g)	0.04056			105	105	105	
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025	
Scope No.	Accelerating Voltage	100 KV	Loading%	18%	G.O.s Counted	100	
3	Screen Magnification	20 KX	Area Examined mm²			1.103	

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc #1	A4-F6	Fibrous Talc	4.2	0.82	5.1	Fibrous talc observed Trace through out	







311079

M69751-040-Talc # 1 (4.20 um x 0.82 um)

12/17/2018

Section 7

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M68503-016ISO **Analyst** Paul Hess **Date** 10/31/2018
ClientName Dept 14 Environmental **ClientSpl** 2018-0060-33A
Location _____
Type_Mat Johnson's Baby Powder
Gross Off-white powder **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55

NON FIBROUS COMPONENTS

Opaques
Talc
Mineral grains

X
 X
 X

Binder Description

Comments X = Materials detected. *** Trace amount fibrous Talc observed.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M68503-016BL1 **Analyst** Paul Hess **Date** 10/25/2018
ClientName Dept 14 Environmental **ClientSpl** 2018-0060-33A
Location _____
Type_Mat Johnson's Baby Powder (100mg prep)
Gross White debris on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55

NON FIBROUS COMPONENTS

Opaques_____
Talc_____
Mineral grains_____
Binder_____

 X_____
 X_____
 X_____
 X_____

Binder Description

Comments X = Materials detected. *** Trace amount fibrous Talc observed.

The method detection limit is 1% unless otherwise stated.

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-016		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Elyse Stempinski			Length	Width	G. O. Area
Date of Analysis	10/29/2018 - 11/2/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02030			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	D2-A1							
NSD	A2							
NSD	A3							
NSD	A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							
NSD	B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	F1							
NSD	F2							
NSD	F3							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-016		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Elyse Stempinski			Length	Width	G. O. Area
Date of Analysis	10/29/2018 - 11/2/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02030			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	E2-A1							
NSD	A2							
NSD	A3							
NSD	A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							
NSD	B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	F1							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-016		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Elyse Stempinski			Length	Width	G. O. Area
Date of Analysis	10/29/2018 - 11/2/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.02030			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

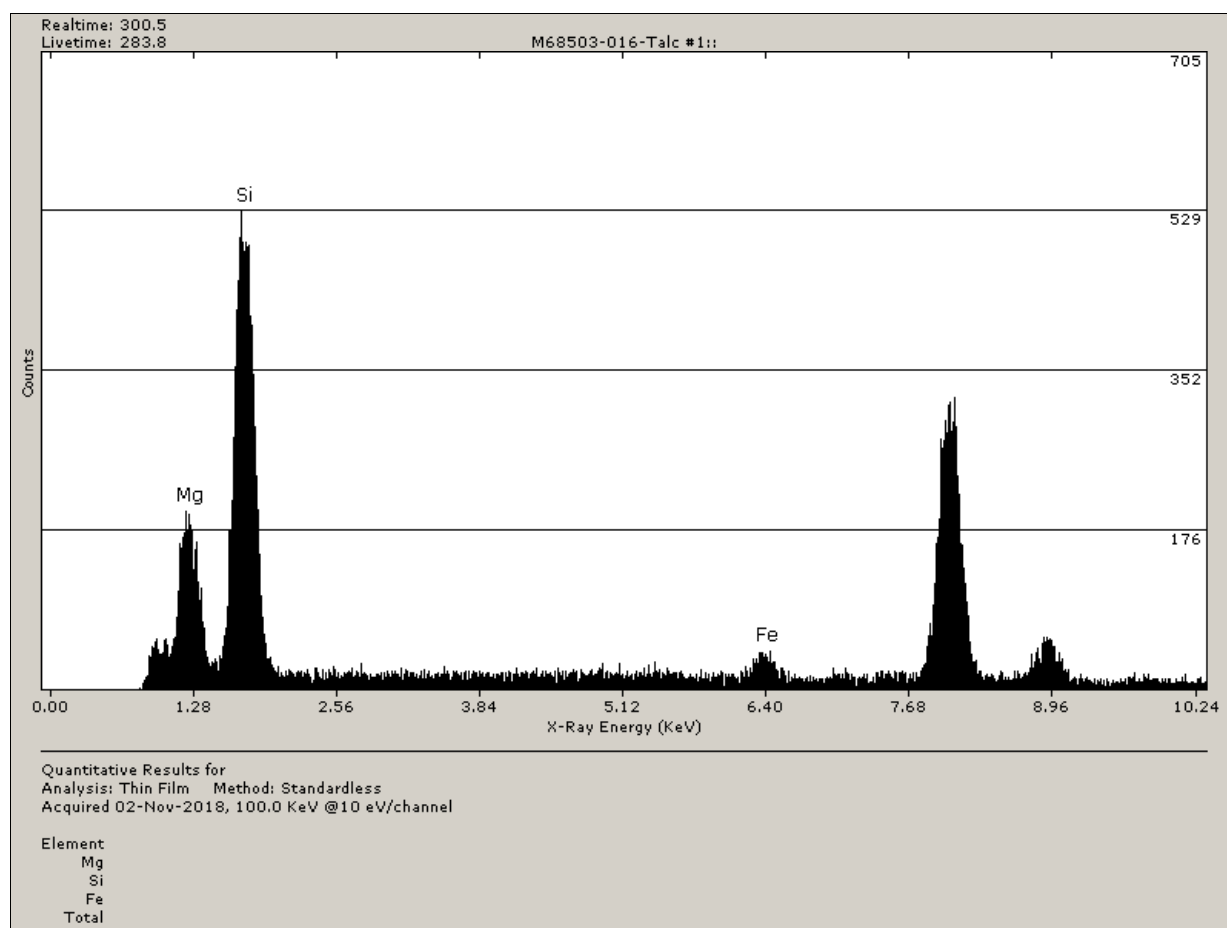
Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
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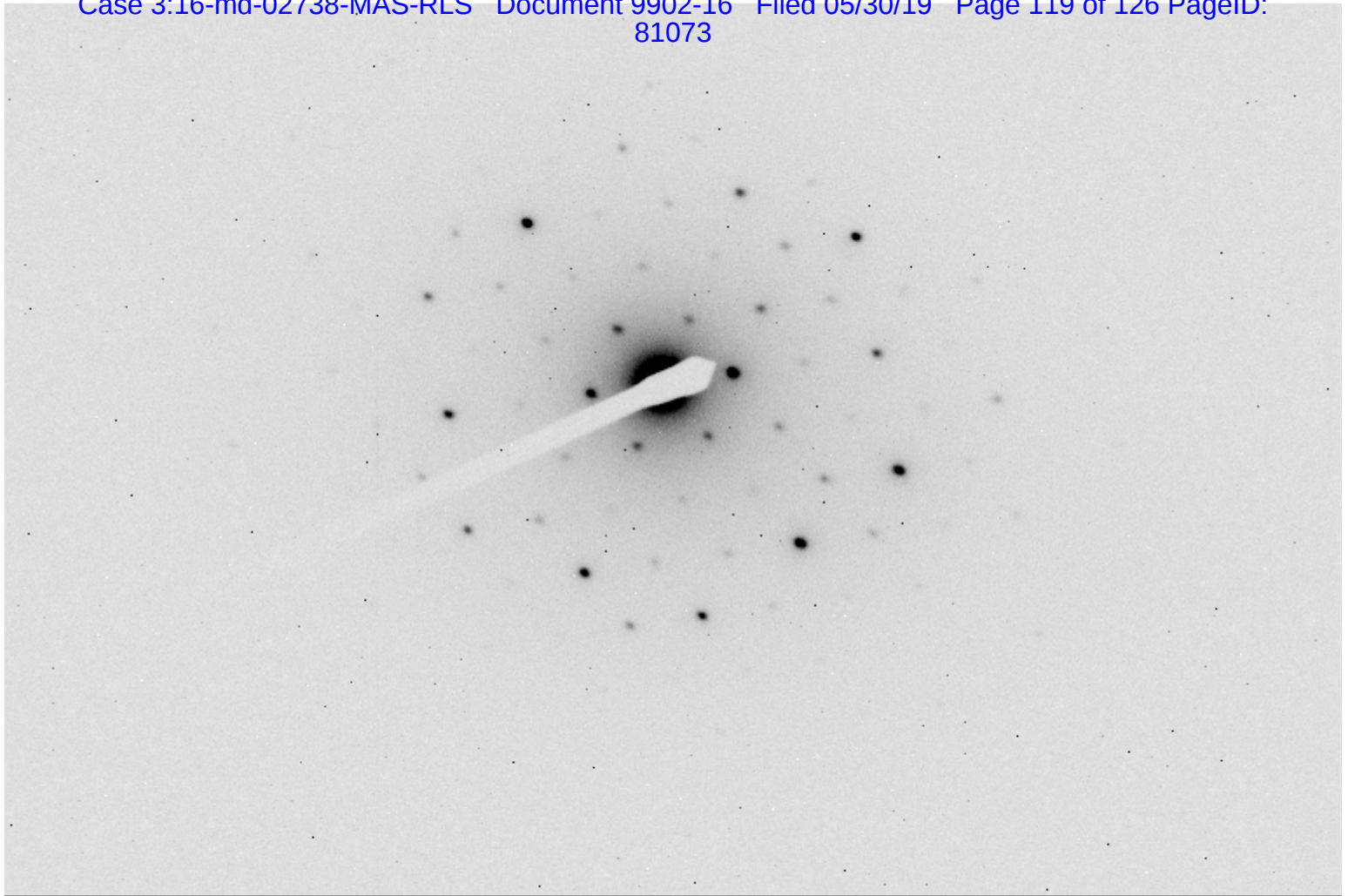
	Sample Wt.	
Org. Sample Wt.	Post HL Separation	
0.02030	0.02030	g
Percent of Orig. Post Separation	100	(%)
Wt. Of Sample Analyzed	0.00011129	g
Filter size	201.1	mm²
Number of Structures Counted	0	Str.
Structures per Gram of Sample	<8985	Str./g

Detection Limit	8.99E+03	Str./g
Analytical Sensitivity	8.99E+03	Str./g

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M68503-016		Grid Box #	8637	No. of Grids Counted	2
Analyst:	Elyse Stempinski			Length	Width	G.O. Area
Date of Analysis	10/29/2018 - 11/2/2018		G. O. in microns =	105	105	105
Initial Weight(g)	0.02030			105	105	105
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
3	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Str./Asb. Type	Length	Width	Ratio	SAED	EDS
Talc #1	D2-D1	Fibrous Talc	7.8	0.42	18.6	Fibrous Talc Observed Trace Throughout	

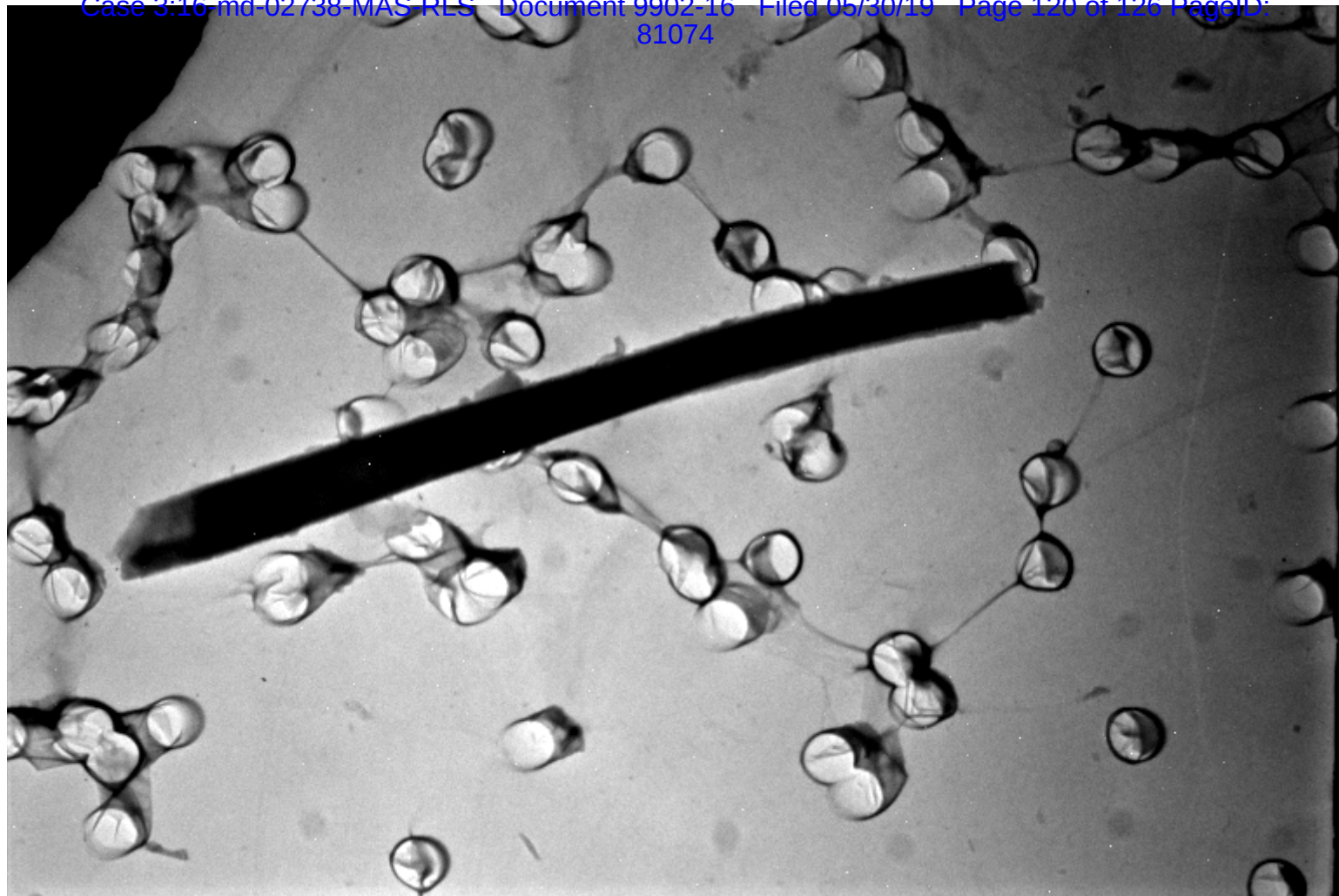




310724

M68503-016-Talc #1 Diffraction @ 50cm

11/2/2018



310720

M68503-016-Talc #1 (7.8 um x 0.42 um)

11/2/2018

Section 8

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69757 - 004ISO **Analyst** Paul Hess **Date** 12/13/2018
ClientName Beasley, Allen, Crow, Methvin, Portis & Miles **ClientSpl** 20180339-05A
Location _____
Type_Mat Talc
Gross Off-white powder **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

Talc -B/Y DS in 1.55

NON FIBROUS COMPONENTS

Opaques

X

Talc

X

Mineral grains

X

Binder Description

Comments *** Trace amount of fibrous Talc observed. X = Materials detected.

The method detection limit is 1% unless otherwise stated.

**MAS, LLC
PLM ANALYSIS**

Proj#-Spl# M69757 - 004BL **Analyst** Paul Hess **Date** 12/14/2018
ClientName Beasley, Allen, Crow, Methvin, Portis & Miles **ClientSpl** 20180339-05A
Location _____
Type_Mat Talc
Gross White debris on slide **% of Sample** 100
Visual _____

OPTICAL DATA FOR ASBESTOS IDENTIFICATION

Morphology			
Pleochroism			
Refract Index			
Sign^			
Extinction			
Birefringence			
Melt			
Fiber Name			

ASBESTOS MINERALS

EST. VOL. %

NO ASBESTOS OBSERVED

Chrysotile.....
Amosite.....
Crocidolite.....
Tremolite/Actinolite.....
Anthophyllite.....

OTHER FIBROUS COMPONENTS

NON FIBROUS COMPONENTS

Opaques_____
Talc_____
Mineral grains_____

 X_____
 X_____
 X_____

Binder Description _____

Comments X = Materials detected.

 The method detection limit is 1% unless otherwise stated.

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-004		Grid Box #	8344	No. of Grids Counted	2
Analyst:	Elyse Stempinski			Length	Width	G. O. Area
Date of Analysis	12/14/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04122			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	C8-B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C1							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D1							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	F1							
NSD	F2							
NSD	F3							
NSD	F4							
NSD	F5							
NSD	F6							
NSD	F7							
NSD	F8							
NSD	F9							
NSD	F10							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-004		Grid Box #	8344	No. of Grids Counted	2
Analyst:	Elyse Stempinski			Length	Width	G. O. Area
Date of Analysis	12/14/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04122			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
NSD	C9-A1							
NSD	A2							
NSD	A3							
NSD	A4							
NSD	A5							
NSD	A6							
NSD	A7							
NSD	A8							
NSD	A9							
NSD	A10							
NSD	B1							
NSD	B2							
NSD	B3							
NSD	B4							
NSD	B5							
NSD	B6							
NSD	B7							
NSD	B8							
NSD	B9							
NSD	B10							
NSD	C2							
NSD	C3							
NSD	C4							
NSD	C5							
NSD	C6							
NSD	C7							
NSD	C8							
NSD	C9							
NSD	C10							
NSD	D2							
NSD	D3							
NSD	D4							
NSD	D5							
NSD	D6							
NSD	D7							
NSD	D8							
NSD	D9							
NSD	D10							
NSD	E1							
NSD	E2							
NSD	E3							
NSD	E4							
NSD	E5							
NSD	E6							
NSD	E7							
NSD	E8							
NSD	E9							
NSD	E10							
NSD	F2							
NSD	F3							

TEM Bulk Talc Structure Count Sheet						
Project/ Sample No.	M69757-004		Grid Box #	8344	No. of Grids Counted	2
Analyst:	Elyse Stempinski			Length	Width	G. O. Area
Date of Analysis	12/14/2018		G. O. in microns =	105	105	11025
Initial Weight(g)	0.04122			105	105	11025
Analysis Type	Post Separation Talc Analysis		Grid Acceptance	Yes	Average	11025
Scope No.	Accelerating Voltage	100 KV	Loading%	20%	G.O.s Counted	100
2	Screen Magnification	20 KX	Area Examined mm²			1.103

Str. #	Grid Opening	Structure	Asbestos Type	Length	Width	Ratio	SAED	EDS
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Org. Sample Wt.	Sample Wt. Post HL Separation
0.04122	0.04122 g
Percent of Orig. Post Separation	100 (%)

Wt. Of Sample Analyzed	0.00022598 g
Filter size	201.1 mm²
Number of Structures Counted	0 Str.
Structures per Gram of Sample	<4425 Str./g

Detection Limit	4.43E+03	Str./g
Analytical Sensitivity	4.43E+03	Str./g